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PERSONAL.

Mr. Stephen J. Bussell has been appointed City Engineer of Oldtown, Me.

Mr. Samuel Zerkel, Manager of the Luray Caverns, has been appointed Superintendent of the Luray, Va., Waterworks.

Mr. Wm. Paul Gerhard, C. E., Consulting Engineer for hydraulic and sanitary works, has removed his offices to 33 Union Square, West, New York city.

Andrew Dall & Son, General Contractors, have removed their offices from the American Trust Building in Cleveland, O., to the Permanent Building, in that city.

Mr. F. W. Dalrymple, Assoc. M. Am. Soc. C. E., has resigned as City Engineer of Hornellsville, N. Y., and has been appointed City Engineer of Jamestown, N. Y.

Mr. F. P. Stearns, M. Am. Soc. C. E., has been appointed Chief Engineer of the newly constituted Metropolitan Water and Sewerage Board of Boston, Mass.

Mr. Royal H. Holbrook, formerly Chief Engineer of the Cedar Rapids & Marion City Ry., has recently been appointed Manager of the Ottumwa Electric & Steam Co., of Ottumwa, Ia.

Mr. Christopher Shields, of Bristol, Va., General Manager of the Virginia Coal & Iron Co., has been appointed Resident Manager of the Dominion Coal Co. at Sydney, C. B., succeeding Mr. Hiram Donkin, resigned.

Mr. James G. Wallace has been appointed Commissioner of Buildings of the Boroughs of Manhattan and The Bronx, New York city. Mr. Wallace is 55 years of age and has been engaged in the building business in New York for 20 years.

Mr. L. P. Wolff, Civil Engineer, for several years City Engineer of Red Wing, Minn., and for the past two years City Engineer of Eau Claire, Wis., has formed a partnership with Mr. C. F. Loweth, M. Am. Soc. C. E., of St. Paul, Minn.

Mr. T. H. Morgan, formerly Foreman of Bridges and Buildings on the Chicago Division of the Atchison, Topeka & Santa Fe Ry., has recently been appointed Superintendent of Roads and Bridges of the Gulf, Colorado & Santa Fe Ry.

Col. George L. Gillespie, Major William L. Marshall and Capt. Edgar Jadwin, Corps of Engineers, U. S. A., have been detailed for the competitive examination of Lieutenants of the Line, with a view to their transfer to the Corps of Engineers.

Professor H. T. Cory, formerly Professor of Civil Engineering at the Missouri State University, and later Professor of Civil Engineering at the University of Cincinnati, has resigned and will become Chief Engineer of the Mexican Central Ry.

Mr. Thomas F. Adams, Master Mechanic of the Eastern Ry. of Minnesota, at Superior, Wis., has been appointed General Master Mechanic of the St. Louis Southwestern Ry., with headquarters at Pine Bluff, Ark., succeeding Mr. R. H. Johnson, resigned.

Mr. E. B. Day, Resident Engineer of the St. Louis, Keokuk & Northwestern R. R. at Hannibal, Mo., has been appointed Assistant Engineer of the Hannibal & St. Joseph R. R., with headquarters at St. Joseph, Mo., to succeed Mr. S. E. Coombs, resigned.

Mr. A. Stewart, Resident Engineer of the Great Northern Ry. at Havre, Mont., has been appointed to succeed Mr. H. W. Edwards, who has resigned as Resident Engineer of that road at Spokane, Wash. Mr. Stewart is succeeded at Havre by Mr. E. R. McNeill.

Mr. A. De Barnardi, Division Superintendent of the Missouri Pacific Ry. System at Concordia, Kan., has been appointed Superintendent of that system at Osawatomie, Kan., succeeding Mr. J. M. Herbert. Mr. De Barnardi is succeeded by Mr. W. B. Schiller.

Mr. William Eassie, Chief Engineer of the proposed Yukon & Behring Straits R. R., and also one of the owners of the Cape Nome Hydraulic Mining Co., will leave New York on April 12 for Seattle, Wash., and will sail from that city on April 27 for Nome City, Alaska.

Mr. Clarke Merchant, a graduate of the United States Naval Academy, has been elected President of the Schuylkill Traction Co., of Pennsylvania. Mr. Merchant resigned his commission in the navy in 1865, and soon after established the metal house of Clarke Merchant & Co.

Major Wm. M. Black, Corps of Engineers, U. S. A., has been relieved from duty as Chief Engineer of the Department of Cuba and placed in command of the Willets Point Station, relieving Major J. G. D. Knight, who relieves Major D. C. Kingman at Chattanooga, Tenn. Major Kingman will succeed Col. Samuel M. Mansfield, appointed a member of the Board of Engineers at New York.

Mr. Harry Glathart, Assistant City Engineer of Findlay, O., has been appointed Assistant Engineer of the Cleveland, Akron & Wadsworth Electric Ry., to be built this spring. Mr. Glathart will have charge of the work of the surveying and all preliminary work of construction.

Mr. Charles L. Parmelee, Consulting Expert for the New York Continental Jewell Filtration Co., has been appointed Chief Engineer of that company. He will move his office from 35 Wall St. to the new factory just completed for the company at Hudson and Sussex Sts., Jersey City, N. J.

Mr. C. A. Alderman, Assoc. M. Am. Soc. C. E., formerly Chief Engineer of the Dayton, Springfield & Urbana Electric Ry., has been appointed Chief Engineer of the Columbus, London & Springfield and of the Columbus, Buckeye Lake & Newark Rys., with headquarters at Columbus, O.

Mr. A. H. Smith, General Superintendent of the Michigan Division of the Lake Shore & Michigan Southern Ry., with headquarters at Toledo, O., has been appointed Assistant General Superintendent of the system, with headquarters at Cleveland, O., and is succeeded by Mr. J. R. Horgan.

Mr. F. S. Hunt, of Dubuque, Ia., has been appointed Chief Engineer of the St. Joseph & Grand Island R. R., with office at St. Joseph, Mo. He succeeds Mr. H. Fernstom, who has resigned to accept a position in the Engineering Department of the New York Central & Hudson River R. R.

Mr. Arthur P. Davis, M. Am. Soc. C. E., Chief Hydrographer of the Isthmian Canal Commission, has completed his report of examinations of streamflow, rainfall, evaporation, water-storage, etc., on the Nicaragua and Panama canal routes, and has gone West to take charge of investigations for the U. S. Geological Survey, regarding the feasibility and cost of water-storage for irrigation in the arid regions.

Mr. James Gayley, M. Am. Inst. M. E., of the Carnegie Co., has been elected First Vice-President of the United States Steel Corporation, in charge of docks and mines. Mr. W. R. Walker, M. Am. Inst. M. E., Metallurgist for the American Steel & Wire Co., has been elected Second Vice-President of the Corporation, in charge of the operation of mills, and Mr. W. P. Palmer, President of the American Steel & Wire Co., Third Vice-President, in charge of sales.

Mr. Hiram Phillips, M. Am. Soc. C. E., has been elected President of the Board of Public Improvements of St. Louis, Mo. Mr. Phillips has been practicing engineering since 1880. During the first five years of his practice he was a U. S. Assistant Engineer on River Improvements in the Mississippi Valley, and for two years following was a Deputy Mineral Surveyor for the Colorado District, besides being Engineer for several mining companies. In 1887 he was elected Director of the State University Testing Laboratory, and has been engaged in Consulting Practice since then.

OBITUARY.

Mr. William E. Johnson, a mine owner of Denver, Colo., died in St. Paul, Minn., last week. Mr. Johnson built the Florence & Cripple Creek R. R. and was interested in the Denver & Southwestern Ry. system, and the mines in the Cripple Creek and other Colorado districts.

Mr. J. T. Mahl, Engineer of Maintenance of Way of the Atlantic System of the Southern Pacific Co., died at Spartanburg, S. C., on March 30, aged 31 years. He was a graduate of the School of Mines of Columbia College and entered railway service in 1892 with the Atlantic System of the Southern Pacific Co. In 1895 he was appointed to the position he held at his death.

Mr. Matthew Baird, head of the Matthew Baird Contracting Co., died in New York city on April 3. He was born in that city in 1846, and early began the business of contracting, with his brother, forming the firm of M. & J. Baird, sewer and paving contractors. Upon the retirement of his brother from that firm Mr. Matthew Baird took two of his sons into the business and established the firm that now bears his name.

Professor Francis A. Jackson, of the University of Pennsylvania, died at his home in Overbrook, Pa., on April 4. Professor Jackson has had 46 years of continuous service with the University, and at the time of his death was Professor of Latin and Literature. He was born in Northumberland, Pa., in 1830, and graduated from the University in 1848. After graduating he was engaged in Civil Engineering, and in 1849 became Assistant Professor in Mathematics and Chemistry in the Episcopal Academy.

ENGINEERING SOCIETIES.

COMING MEETINGS.

BROOKLYN ENGINEERS' CLUB.
April 11. Paper: "Some Details of Sand Filter Construction," by R. D. Chase. Secy., C. J. Provost, Jr., 191 Montague St., Brooklyn, N. Y.
AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.
April 12. Conversazione and exhibition of inventions, at Columbia University. Secy., R. W. Pope, 26 Cortlandt St., New York city.
CENTRAL RAILWAY CLUB.
April 12. Monthly meeting at Buffalo, N. Y. Committee report on "Repairs to Pressed Steel Car Bodies." Secy., Harry D. Vought, 114 Fifth Ave., New York city.
AMERICAN CHEMICAL SOCIETY.
April 12 and 13. Annual meeting in New York city. Secy., Albert C. Hale, 551 Putnam Ave., Brooklyn, N. Y.
AMERICAN RAILWAY ASSOCIATION.
April 24. Annual meeting in New York city. Secy., W. F. Allen, 24 Park Place, New York city.
NEW ENGLAND COTTON MANUFACTURERS' ASSOCIATION.
April 24 and 25. Annual meeting at Boston, Mass.
NATIONAL ELECTRIC LIGHT ASSOCIATION.
May 21 to 23. Annual meeting at Niagara Falls, N. Y. Secy., Geo. F. Porter, 120 Liberty St., New York city.
AMERICAN SOCIETY OF MECHANICAL ENGINEERS.
May 28 to 31. Spring meeting at Milwaukee, Wis. Secy., F. R. Hutton, 12 West 31st St., New York city.
NATIONAL ASSOCIATION OF MANUFACTURERS.
June 4 to 6. Annual meeting at Detroit, Mich. Secy., E. P. Wilson, Chamber of Commerce, Cincinnati, O.
CANADIAN ELECTRICAL ASSOCIATION.
June 19 to 21. Annual meeting at Ottawa, Ont. Secy., C. H. Mortimer, Confederation Life Bldg., Toronto, Can.
ASSOCIATION OF RAILWAY TELEGRAPH SUPERINTENDENTS.
June 19. Annual meeting at Boston, Mass. Secy., P. W. Drew, Wis. Cent. Ry., Milwaukee, Wis.
AMERICAN RAILWAY MASTER MECHANICS' ASSOCIATION.
June 19. Annual convention at Saratoga, N. Y. Secy., Jos. W. Taylor, 667 Rookery Bldg., Chicago, Ill.
MASTER CAR BUILDERS' ASSOCIATION.
June 24. Annual convention at Saratoga, N. Y. Secy., Jos. W. Taylor, 667 Rookery Bldg., Chicago, Ill.

AMERICAN INSTITUTE OF MINING ENGINEERS.—The next meeting will be held in the city of Mexico, early in November, and arrangements are now being made for the trip.

BROOKLYN ENGINEERS' CLUB.—At the meeting of April 4 a paper on "Compressed Air and Its Uses" was read by Mr. J. J. Swann, Engineer of the Ingersoll-Sargent Drill Co.

NEW ENGLAND COTTON MANUFACTURERS' ASSOCIATION.—The annual meeting will be held in Boston on April 24 and 25. The opening address will be delivered by Dr. Henry S. Pritchett, President of the Massachusetts Institute of Technology. Papers are expected on the following subjects: "Industrial Unity," "Cotton Mill Accounting," "The Cloth Room; Its Arrangements and Needs," "Cotton Manufacturing in Japan," "A Modern Textile Machine Plant," "Overseeing," "Possible Additional Economies at the Steam End of the Mill," "Friction Clutches in Cotton Mills," "Mechanical Transmission of Power," "Some of the Troubles to Manufacturers Arising from Dyed Yarns," "Water Cooling Towers," "Cotton Manufacturing in Mexico," "A Study in Lug Straps for Broad Drop Box Looms," "The Results of Artificial Humidity in Cotton Manufacturing," "The Paris Congress on Unification of Yarn Numbering."

NEW PUBLICATIONS.

DEVELOPMENT AND UTILIZATION OF WATER RIGHTS AT WEDRON, LA SALLE COUNTY, ILL.—By W. J. C. Kenyon, Gen. Man. Union Stock Yards Co., South Omaha, Neb. Paper; 5 × 7 ins.; pp. 8.

This is a prospectus for the development of water power at Wedron, 8 miles from Ottawa, on the Fox River. With an effective lead of 12 ft., there can be developed 1,200 HP., about 80% of which can be transmitted to Ottawa for light and power purposes.

LEAGUE OF CITIES OF THE THIRD CLASS OF PENNSYLVANIA.—Proceedings of First Annual Convention at York, Pa., May 15 and 16, 1900. President, John Depinet, Erie; Secretary, J. Frank Goble, York. Paper; 6 × 9 ins.; pp. 77.

This report contains a number of interesting papers and discussions on municipal accounting, charters, franchises and engineering. There is a brief paper on the intermittent filtration of sewage at Altoona, and a much briefer one on garbage cremation at York.

DISCHARGE OF SEWAGE INTO BOSTON HARBOR.—Special Report of the Massachusetts State Board of Health. S. W. Abbott, Secretary; X. H. Goodnough, Chief Engineer; Boston, Mass. Cloth; 6 × 9 ins.; pp. 100; folding maps.

This report deals with a portion of the same question as was reported on at length in 1899 by the Metropolitan Sewerage Commission. The earlier report was abstracted at length in our issue of March 16, 1899. It recommended the construction of a high-level gravity sewer for Boston and vicinity, partly to relieve the sewer now discharging at Moon Island. The State Board of Health endorses the general plan for continuous discharge of sewage from the new sewer into the Boston Harbor in the channel near Peddock's Island, with slight changes in location of the outlets. As to the towns in the upper Charles and Neponset River valleys, the State Board of Health believes that with a few minor exceptions the sewage should be treated by filtration, rather than conveyed to the harbor, but this, as we understand it, does not greatly affect the total volume to be conveyed to the harbor. The report, although published not long ago, is dated April 18, 1900. The high-level gravity sewer is already under construction.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3½x6 ins., 6x9 ins., and 9x12 ins.)

WIRE ROPE AND ROPE TRAMWAY.—A. Leschen & Sons Rope Co., St. Louis, Mo. Paper; 6¼ × 3¼ ins.; pp. 4; illustrated.

This briefly describes the company's various styles of wire rope, and the Leschen patent aerial wire-rope tramway or cableway.

VARIABLE SPEED TRANSMISSION.—Reeves Pulley Co., Columbus, Ind. Paper; 6 × 9 ins.; pp. 66; illustrated.

The Reeves variable speed device, which has been illustrated in our columns, consists of pulleys of variable diameter, connected by a stiff belt. The pamphlet contains a number of illustrations of the application of this device to machine tools, stokers and other machinery, together with a long list of customers, and general information respecting the device.

PAINTS.—Jarrait Paint & Enamel Co., 92 Griswold St., Detroit, Mich. Paper; 3½ x 5½ ins.; pp. 12; illustrated.

This contains a number of testimonials respecting the use of metal enamel for locomotive and structural steel work, non-fouling paints for vessels, paint for wood work, etc.

FRICTION CLUTCHES.—Coil Clutch Mfg. Co., 45 Broadway, New York city. Paper; 8¾ x 11¼ ins.; two circulars; illustrated.

These circulars describe Lindsay's patent coil-friction clutches for rolling mills, winding engines and other heavy machinery. Clutches of 10,000 HP. each are said to be in operation.

CEMENT COATING FOR MASONRY.—Chicago Cement Coating Co., 1641 Monadnock Block, Chicago. Paper; 7 x 10½ ins.; pp. 16; illustrated.

This material is a waterproof covering for brick, stone, concrete, etc., and the pamphlet contains full-page line and half-tone engravings of a number of large modern buildings in which it has been used on the foundations, floors, tanks, swimming pools, etc. The advantages of the material are set forth, and there is a long list of contracts recently executed.

INTERLOCKING APPLIANCES.—Detroit Pipe Carrier Co., Detroit, Mich. Paper; 10 x 6½ ins.; pp. 16; illustrated.

This pamphlet contains views and descriptions of pipe and wire carriers mounted on concrete blocks and on metal base plates. The concrete blocks are made by the railways, under license from the company. Details are given of the carriers and plates.

ROAD-MAKING MACHINERY.—Fleming Mfg. Co., Fort Wayne, Ind. Paper; 9 x 6 ins.; pp. 32; illustrated.

The machinery shown in this catalogue includes reversible road machines or graders, with special drawbar and a raising and lowering device. Other forms of graders, stone crushers, road rollers, wheel and drag scrapers, and grading plows are included, and there is a pneumatic water-supply system for small towns, factories, institutions, etc.

GAS AND GASOLINE ENGINES.—Monarch Gas Engine Co., Indianapolis, Ind. Paper; 6 x 9 ins.; pp. 20; illustrated.

The Royal engine, which is this company's specialty, is of the single-cylinder center-crank type for sizes of 3 to 20 HP. Special forms are also made having vertical cylinders (1½ and 2½ HP.), and having double horizontal cylinders with overhung cranks (25 to 100 HP.). They operate on the four stroke cycle principle.

RAILWAY CRANES AND TRANSFER TABLES.—Industrial Works, Bay City, Mich. Paper; 9¼ x 12 ins.; pp. 24, 6 and 4.

The largest publication describes various forms of ordinary and wrecking cranes, and shows them engaged in different kinds of work. Most of them art portable, but pillar and bridge cranes for freight yards, etc., are also shown. The smaller pamphlet shows several bad railway wrecks, with cranes at work, while the smallest is devoted to transfer tables. All are handsomely printed and illustrated by good half-tone engravings.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened.	Work.	Place.	See Eng. News.
Apr. 11.	Paving.	New York, N. Y.	Apr. 4
Apr. 11.	Botanical building,	New York, N. Y.	Apr. 4
Apr. 11.	Water mains, etc.,	New York, N. Y.	Apr. 4
Apr. 11.	Water pipe, specials, etc.,	Hudson, N. J.	Apr. 4
Apr. 11.	Iron work for dam,	Little Rock, Ark.	Mar. 14
	Advertised, Eng. News, Mar. 14 to Apr. 4.		
Apr. 11.	Library building,	New York, N. Y.	Mar. 7
Apr. 13.	Power house,	Boston, Mass.	Mar. 21
Apr. 14—16.	Exposition buildings,	Columbus, S. C.	Apr. 11
Apr. 15.	Union passenger depot,	Savannah, Ga.	Apr. 11
Apr. 15.	Power dam, etc.,	Stanton, Neb.	Apr. 11
Apr. 15.	Removing wreck,	Wilmington, N. C.	Mar. 21
	Advertised, Eng. News, Mar. 21 to Apr. 11.		
Apr. 15.	Hospital building,	Fort Terry, N. Y.	Mar. 28
Apr. 15.	Electric plant,	Montezuma, Ia.	Mar. 28
	Advertised, Eng. News, Mar. 28 and Apr. 4.		
Apr. 15.	Paving,	Erie, Pa.	Mar. 28
	Advertised, Engineering News, Mar. 28.		
Apr. 15.	Sewers (12½ miles),	Connellsville, Pa.	Mar. 28
	Advertised, Eng. News, Mar. 28 to April 11.		
Apr. 15.	Water-works,	Lewiston, Minn.	Mar. 28
Apr. 15.	Water-works, etc.,	Montezuma, Ia.	Mar. 28
	Advertised, Eng. News, Mar. 28 and Apr. 4.		
Apr. 15.	Repairing water-works,	Tamaqua, Pa.	Apr. 4
Apr. 15.	Pipe sewer,	Gloversville, N. Y.	Apr. 4
Apr. 15.	Armory,	Westerly, R. I.	Apr. 4
Apr. 15.	School house,	Comanche, Tex.	Apr. 4
Apr. 15.	Tenement building,	New York, N. Y.	Apr. 4
Apr. 15.	Steel bridge,	Bridgeport, Conn.	Apr. 4
	Advertised, Engineering News, Mar. 28.		
Apr. 15.	Sidewalking,	Palmerston, Ont.	Apr. 4
Apr. 15.	Sewers,	Taunton, Mass.	Apr. 4
	Advertised, Engineering News. April 4.		
Apr. 15.	Sewer castings,	Worcester, Mass.	Apr. 4
	Advertised, Engineering News, April 4.		
Apr. 16.	Naval supplies,	New York, N. Y.	Apr. 4
Apr. 16.	Dam, etc.,	New York, N. Y.	Apr. 4
Apr. 16.	Ditch (9,860 cu. yds.),	St. Cloud, Minn.	Apr. 4
Apr. 16.	Castings (w.-w.),	Worcester, Mass.	Apr. 4
	Advertised, Engineering News, April 4.		
Apr. 16.	Store house,	Fort Meyer, Va.	Apr. 4
Apr. 16.	Bridges (2),	Lampasas, Tex.	Mar. 28
Apr. 16.	Court house,	Butler, Mo.	Mar. 21
Apr. 16.	Crushed stone,	Van Wert, O.	Mar. 21
	Advertised, Eng. News, Mar. 7 to 28.		
Apr. 16.	Water pipe, gates, etc.,	Reading, Pa.	Apr. 11
Apr. 16.	Paving brick (100,000),	Lynn, Mass.	Apr. 11
Apr. 16.	Bridges (3),	San Saba, Tex.	Apr. 11
Apr. 17.	Town hall,	Unionville, Conn.	Apr. 11
Apr. 17.	Sewers,	New York, N. Y.	Apr. 11
Apr. 17.	Jail building,	Watkinsville, Ga.	Mar. 21
Apr. 17.	Heating plant, etc.,	New Brighton, Pa.	Mar. 14
Apr. 17.	Water mains, etc.,	Philadelphia, Pa.	Apr. 4
Apr. 18.	Plumbing, etc.,	Washington, D. C.	Apr. 4
Apr. 18.	Sewer,	Seymour, Ind.	Apr. 4
Apr. 18.	Furnishing rock,	Mobile, Ala.	Mar. 21
	Advertised, Eng. News, Mar. 21 and 28.		
Apr. 18.	Asphalt (200 tons),	Winnipeg, Man.	Mar. 21
Apr. 18.	Shop building, etc.,	Ft. Leavenworth, Kan.	Mar. 28
Apr. 18.	Iron flagstaffs,	St. Louis, Mo.	Mar. 28
Apr. 19.	Brick paving,	East Cleveland, O.	Mar. 28
Apr. 19.	Bank building,	Winnipeg, Man.	Apr. 11
Apr. 19.	Pier, etc.,	New York, N. Y.	Apr. 11
Apr. 20.	Dormitory,	Lafayette, La.	Apr. 11
Apr. 20.	Office building,	Hazleton, Pa.	Apr. 11
Apr. 20.	Electric plant,	Rocky Mount, N. C.	Apr. 11
Apr. 20.	Asphalt paving,	Washington, D. C.	Apr. 11
	Advertised, Engineering News, Apr. 11.		
Apr. 20.	Sidewalk,	Youngstown, O.	Apr. 11
Apr. 20.	Sewers,	Washington, D. C.	Apr. 11
	Advertised, Engineering News, Apr. 11.		
Apr. 20.	Steel stacks,	Washington, D. C.	Apr. 11
Apr. 20.	Brick paving,	Alexandria, Va.	Mar. 28
	Advertised, Eng. News, Mar. 28 to Apr. 18.		
Apr. 20.	Block pavement,	Findlay, O.	Mar. 28
Apr. 20.	School house,	Washington, D. C.	Apr. 4
Apr. 20.	Repairing light station,	Mobile, Ala.	Apr. 4
Apr. 20.	Church building,	Albert Mines, N. B.	Apr. 4
Apr. 20.	Iron bridge,	Newport, Ky.	Apr. 4
	Advertised, Eng. News, Apr. 4 and 11.		
Apr. 22.	Boat house,	Alexandria, Va.	Mar. 28
Apr. 22.	Electric plant,	Lawrenceburgh, Ind.	Mar. 28
	Advertised, Eng. News, Mar. 28 to Apr. 11.		
Apr. 22.	Steel stacks, etc.,	Washington, D. C.	Mar. 28
Apr. 22.	Electric meters,	Launceston, Tasmania	Feb. 7
Apr. 22.	Building,	Buffalo, N. Y.	Apr. 4
Apr. 22.	Buildings,	Ellis Island, N. Y. H.	Apr. 11
Apr. 22.	School house,	John Day, Ore.	Apr. 11
Apr. 22.	Paving (75,000 yds.),	Boston, Mass.	Apr. 11
Apr. 22.	Engine, pump, etc.,	Wallington, N. J.	Apr. 11
Apr. 22.	Improving streets,	Wabash, Ind.	Apr. 11
Apr. 22.	Removing wreck,	Norfolk, Va.	Apr. 11
Apr. 23.	Life saving stations (2),	Detroit, Mich.	Apr. 11
Apr. 23.	Elevator,	Washington, D. C.	Apr. 4
Apr. 23.	Air lift pumping plant,	Ft. Wayne, Ind.	Mar. 21
	Advertised, Eng. News, Mar. 21 and 28.		
Apr. 24.	Steam tender,	Washington, D. C.	Mar. 28
Apr. 24.	Sanitarium buildings (2),	Milledgeville, Ga.	Apr. 4
Apr. 24.	Paving,	Cohoes, N. Y.	Apr. 11
	Advertised, Engineering News, Apr. 11.		
Apr. 24.	Hospital building,	Dayton, O.	Apr. 11
Apr. 25.	Bridge work,	New York, N. Y.	Apr. 11
	Advertised, Eng. News, Apr. 11 and 18.		
Apr. 25.	Electric wiring,	Washington, D. C.	Apr. 4
Apr. 25.	Pipe sewers (6 miles),	Rocky Mount, S. C.	Apr. 4
	Advertised, Eng. News, Apr. 4 and 11.		
Apr. 26.	Bridge,	Milwaukee, Wis.	Mar. 21
Apr. 26.	Buildings,	Buffalo, N. Y.	Apr. 4
Apr. 26.	Water pipe, etc.,	Governor's Island, N.Y.H.	Apr. 4
Apr. 26.	Heating plant,	Washington, D. C.	Apr. 11
Apr. 26.	Paving brick (50,000),	Holyoke, Mass.	Apr. 11
	Advertised, Engineering News, Apr. 11.		
Apr. 26.	School house,	Wyandotte, Mich.	Apr. 11
No date.	Railway wrk (O. & N. R.R.),	Orange, Tex.	Apr. 4
"	Steel plant,	Norwalk, O.	Apr. 4
"	Street cleaning,	South Bend, Ind.	Apr. 4
	Advertised, Engineering News, April 4.		
No date.	Sinking coal shaft,	Alderson, Ind. Ter.	Apr. 11
"	Canal, etc.,	Goshen, N. Y.	Apr. 11
	Advertised, Eng. News, Apr. 11 to May 30.		

RAILWAYS.

ALACULSY LUMBER CO.—C. H. Wilkinson, Secy., Binghamton, N. Y., writes us that this company was organized in February, and has a charter to build a railway from Dalton via Spring Place to Blue Ridge, Ga., a distance of 56 miles, which, it is expected, will be ready for operation by January next. The company has secured something over 32,000 acres of timber lands in Murray, Gilman and Fanning counties, Ga., and is now erecting sawmills, houses and other buildings on the property. The capital stock is $450,000. J. W. Beard, Supt. and Mgr., Elkland, Pa., and C. S. Wilkinson, Binghamton, N. Y., will have charge of the operations. M. S. Squires, Pres.,

AMERICAN-MEXICAN PACIFIC.—Lyman Bridges, Ch. Engr., Tucson, Ariz., informs us that work will commence at once at Phoenix, Ariz., and that section of this proposed road via Florence, Tucson and Colabasas to Naco, on boundary line of Mexico, will be built. Surveys have been made for 200 miles of line in Arizona. The contract for the work has been let to W. C. Bradbury & Co., of Denver, Colo. The road will have a total length of 1,050 miles. W. Williams, Vice-Pres.; R. H. G. Minty, Gen. Mgr., and John Gardner, Treas., Tucson.

BALTIMORE & OHIO.—J. R. Droney, of Olean, N. Y., Pres. Droney Lumber Co., has stated that the contract for building an extension of this line from Confluence into Garret county, Md., about 40 miles, has been let to W. H. Dodge, of Buffalo, N. Y. The work is said to have been started. The Droney Lumber Co. is building a number of plants at Unamis, a new town on the Casselman River.

BIRMINGHAM & VICKSBURG.—D. Levy, Secy., Canton, Miss., writes that 55 miles of this projected road have been surveyed and most of the rights of way are secured for that distance. An engineering party is now in the field completing the survey. The line will have a length of about 250 miles, and will pass through Vicksburg, Canton, Carthage Macon, Tuscaloosa and other towns.

CENTRAL NEW ENGLAND.—A contract has been awarded to William Orlando, contractor, Belchertown, Mass., for lowering about 4,000 ft. of the company's track at Hartford, Conn. The track will be lowered about 7 ft.

CENTRAL PACIFIC.—It is stated that 146 miles of this road will be abandoned from Ogden to Lucien, over the Kelton and Promontory mountains. Cut-offs 105 miles in length will replace the abandoned sections, saving a distance of 41 miles. The new line will be practically free from curves and grades. The work will cost in the neighborhood of $3,000,000. The plan is said to have been first conceived by the late Collis P. Huntington, President of the Southern Pacific System, and will probably be carried out by President Hays of that system.

CHICAGO GREAT WESTERN.—Extensions to Omaha, Neb., and Sioux City, Ia., have been decided upon, for which $8,000,000 will be raised; aggregate length, 274 miles. There will be running powers to Fort Dodge, Ia., whence the new line will run to Clarion and Omaha, 131 miles, and from Clarion to Sioux City, 143 miles. The company has purchased the Mason City & Fort Dodge Ry., and will build about 50 miles of line to connect this road with the C. G. W. Ry. system. A. B. Stickney, Pres.; F. R. Coates, Ch. Engr., St. Paul, Minn.

CHICAGO, MILWAUKEE & ST. PAUL.—Engineers and surveyors are reported to be in the field in the vicinity of Evarts, S. Dak., locating a line which will give the company a road to Helena, Mont.

CHICAGO, ST. PAUL, MINNEAPOLIS & OMAHA.—Surveyors are locating a line from Rice Lake, Wis., northeast by the way of Cedar Lake and Birch Lake, for a distance of 75 miles. It is stated that the road will be built during the early summer. C. W. Johnson, Ch. Engr., St. Paul, Minn.

COLUMBIA, HUNTSVILLE & TRENTON.—Preliminary arrangements have been completed and the survey for this projected line has been started.

CHIGNECTO MARINE TRANSPORT.—Reports state that an effort is being made by English and Scotch promoters to revive the project to build this long-proposed road, which will embrace the construction of a marine railway in Nova Scotia across the neck of land joining the province with the Canadian mainland, by which it is proposed to carry vessels overland from the Bay of Fundy to the Strait of Newfoundland, some 20 miles, thus saving several hundred miles of sailing around the province. Work was started, but the project was abandoned in 1890, after the promoters had spent nearly $4[illegible] on the enterprise. A. D. Provand, 2 Whitehall C[illegible] W., Lon. don, England, formerly a member of parli[illegible] is now in Canada endeavoring to obtain financial a[illegible] the government to carry out the enterprise.

EL PASO TERMINAL R. R.—A charter [illegible] issued this company in Texas for the purpose [illegible] ing and operating a suburban and terminal rail[illegible] and union passenger depot in El Paso, Tex. The c[illegible] ization is $300,000. The road will be owned by [illegible] Southwestern R. R., and will be the El Pa[illegible] Arizona & that road when it is built to this city. W[illegible] menus of Bisbee, Ariz.; C. E. Mills, Morener, Ariz[illegible] Douglas, Wambaugh, Ch. Engr., Arizona & Southwe[illegible] M. W. Paso, are incorporators.

ERIE.—Improvements are to be made i[illegible] ton and Sharpsville, Pa., which will cost over $100[illegible] What is now used as the main tracks at Sharpsville [illegible] made a siding. The company will run its main tra[illegible] the west side of the Shenango River. This will do [illegible] with a long bridge and will facilitate the handling [illegible] at Sharpsville. C. W. Buchholz, Ch. Engr., 21 [illegible] New York.

GRAND TRUNK.—The company has off[illegible] to pay $1,000,000 towards elevating its tracks from [illegible] Station, Montreal, P. Q., to St. Henri.

HUTCHINSON & SOUTHEASTERN.—A [illegible] liminary survey for this road has been made. The [illegible] struction capital has been secured and contracts w[illegible] soon be awarded. The line will run from Hutchin[illegible] Kan., to Fort Smith, Ark., about 400 miles. E. M. Holb[illegible] Hutchinson, is said to be interested.

INDIANA, DECATUR & WESTERN.—Rights of way for the proposed extension of this line to Springfield, Ill., have been secured, and surveys are now under way. It is expected to begin work as soon as the weather settles. M. D. Woodford, Pres., Cincinnati, O.

KLONDIKE MINES RY. SYSTEM.—Reports from Dawson, Yukon District, Northwest Territory, state that work on this projected system will soon begin. It is intended to build the road on creek bottoms and run it on high levels so as not to interfere with claims. The general route will be along the Klondike River, thence by Bonanza, Dominion and Indian to Yukon. It will be a belt line, beginning and ending at Dawson. The Yukon council has given the company a right of way of 60 ft.

LAKE ERIE, ALLIANCE & WHEELING.—B. H. Roseberry, Bergholz, O., writes us that a contract for three miles of this road has been let and work is already under way. Contracts for the remaining 24 miles will probably be let in May. Surveys are nearly completed and a portion of the right of way is secured. The road will run through Phalanx, Alliance, Minerva, Bergholz and Portland. From Bergholz southward the line traverses a good coal tract. The capital is secured. Calvary Morris, Pres., Cleveland, O.

MINNEAPOLIS, ST. PAUL & SAULT STE. MARIE.—Thos. Greene, Ch. Engr., Minneapolis, Minn., informs us that the contract for the extension from St. Croix, Wis., to the northwest boundary line of Polk county, about 22.5 miles, has been let to Halvorson & Richards, contractors, of Minneapolis. Grading has already been started.

MOBILE, JACKSON & KANSAS CITY.—A contract has been let to Contractor Denson, of Bay Springs, Miss., for grading this line from Laurel to Bay Springs, at $6,000 per mile.

OREGON SHORT LINE.—A contract is reported to have been closed between this company and the White Knob Copper Co., Ltd., for the construction of about 96 miles of railway, from a point near Blackfoot, on the Oregon Short Line, to Houston, in the central part of Idaho. The new line will bring the company in communication with the entire Lost River Valley and will ensure the rapid development of that section. It is expected that the company will expend over $1,000,000 on the road. Wm. Ashton, Res. Engr., Salt Lake City, Utah.

PENNSYLVANIA R. R.—The company has awarded a contract to the American Bridge Co. for furnishing the steel for the superstructure of a train shed to be erected east of the new Union Station, in Pittsburg, Pa. The shed will be 570 x 258 ft., and will require about 22,000 tons of steel, which is to be delivered within 60 days.——A contract has been let to B. M. & J. F. Shanly & Co., of Trenton, N. J., for the first section of the masonry work on the elevation of tracks through Newark, N. J. The section is about a half mile in length, and the work consists of the construction of heavy retaining walls and bridge foundations. Wm. H. Brown, Ch. Engr., Broad St. Station, Philadelphia, Pa., is said to have asked for proposals for six sections of double track, aggregating 32 miles between Lock Haven and Keating, on the Philadelphia & Erie branch.

PHOSPHATE ROAD.—It is reported from Tampa, Fla., that the phosphate miners of South Florida have organized a company to build a railroad system over the entire lower portion of that state, with a terminal at Tampa. A deal is said to have been closed for water front terminals upon which to erect elevators for handling shipments.

PORTLAND & RUMFORD FALLS.—A survey will be made by R. B. Stratton, Ch. Engr., Rumford Falls, Me., for the extension to Indian Rock.

RICE LAKE & NORTHERN.—A. E. Coe, Barron, Wis., informs us that no general contract will be let for the construction of this road, for which surveys are now under way. About five miles of right of way have been purchased. The line will extend from Rice Lake to Ashland, 100 miles. Geo. Fuller, Pres., St. Paul, Minn.; S. G. Jones, Ch. Engr., Rice Lake.

SAVANNAH UNION STATION CO.—E. B. Eppes, Engr., Savannah, Ga., sends us the following list of bidders on the construction of the yards and line approaches to the company's proposed station in Savannah. Estimated quantities: 400,000 cu. yds. of earth work, 700 lin. ft. trestle work, 48,000 cu. ft. brick masonry: W. J. Oliver & Co., Langley, S. C. (awarded contract); Williams & Pruden, McMillan, Tenn.; McArthur Bros., Chicago, Ill.; McCreary, Wright & Co., Macon, Ga.; J. S. Baxter Co. & Long, Jacksonville, Fla.; A. J. Twiggs, Augusta, Ga.; Stewart Contracting Co., Columbia, S. C., and Isaac T. Brown, New York.

SOUTHERN.—W. H. Wells, Engr. of Construction, Washington, D. C., informs us that the survey for the Jellico-Burgin extension has been completed.

SOUTHERN UNION.—J. E. Johnston, Knoxville, Tenn., writes that the preliminary surveys are now being made for this road, 30 miles, and rights of way are being obtained. Geo. F. Anderson, Pres., Danville, Ky.; Jere Respess, Ch. Engr., Pioneer, Tenn.

SPRINGFIELD, JEFFERSON CITY & CHICAGO.—J. K. Moller, Prairie City, Ia., writes that the construction capital for this road has been received and contracts will be let about June 1. A survey for about 35 or 40 miles has been made. The road will have a total length of about 275 miles, extending through Versailles, Linn Creek, Buffalo and Springfield, Mo. Wm. Woodburn, Pres., Des Moines, Ia.; J. S. Briggs, Gen. Mgr., Versailles, Mo.

UNION SPRINGS & NORTHERN.—Wm. Blount, Pres., Union Springs, Ala., wrote us on March 25 that the contract for building the company's 116 miles of railway would be let in 10 days. The survey has been finished and the construction capital secured. The road will be standard gage. G. B. Miles, Ch. Engr., Union Springs.

STREET AND ELECTRIC RAILWAYS.

AUGUSTA, ME.—The city government has approved the location of the proposed extension of the Augusta, Hallowell & Gardiner Electric R. R., from Augusta to Togus, and the construction will begin as soon as the weather permits.

CONCORD, N. H.—A survey for the electric road from this place to Nashua for the Concord & Montreal R. R., has been started. It is expected that the construction will commence at once. Benj. S. Kimball is interested.

BOSTON, MASS.—B. D. Sumner, Ch. Engr., Providence & Fall River St. Ry. Co., 8 Congress St., Boston, informs us that the Providence & Fall River St. Ry. will be ready for operation by June 1. The work is being done by John Shaw & Co. with 350 men.

ALBANY, N. Y.—The New York & Port Chester R. R. has been incorporated to build and operate an electric street surface road 25 miles in length from the Harlem River at Port Morris, through the Borough of Bronx to Mount Vernon, Pelham Manor, New Rochelle, Larchmont, Orienta, Mamaroneck, Milton, Rye, and Port Chester to the Connecticut line, with a branch line to Clason's Point on the East River. The company is capitalized at $250,000. Chas. Heinecke, Whitestone; M. F. Germond, Dumont, N. J., and Ernest Muller, Westfield, N. J., are interested.

BALLSTON SPA, N. Y.—H. J. Medley, Ballston Spa, writes that surveys have been made and rights of way secured for the line to be built by the Scotia Traction Co., of Schenectady. Contracts will be let in about two weeks. The road will be about 2.5 miles in length.

COOPERSTOWN, N.Y.—It is reported that the Oneonta, Cooperstown & Richfield Springs Electric R. R. has decided to locate its powerhouse and car barns at Hartwick, where a site has been obtained.

FLUSHING (L. I.), N. Y.—It is reported that the New York & Queens County R. R. proposes to extend its line from Flushing to Whitestone this spring.

LOCKPORT, N. Y.—The following estimates have been made by Wm. E. Hoyt, Civil Engr., of the cost of constructing the Ridge Road Trolley, from Rochester to Buffalo and Niagara Falls, passing through this city: Earth excavation, 760,000 yds., $174,800; rock excavation, $72,000; wet excavation, $9,000; steel bridges and masonry, $348,000; culverts and stone bridges, $42,200; steel rails, $396,000; fastenings, $66,000; ties, $216,000; ballast, $156,000; track-laying, 120 miles, $36,000; surfacing and resurfacing, $38,400; second track grading, $19,200; switch sets, frogs, etc., $12,000; poles and wires, $364,800; power plant complete, $670,000; equipment, $367,000; engineering and contingencies, $114,300; total, $3,102,100.

SYRACUSE, N. Y.—E. G. Connette, Gen. Mgr., Syracuse Rapid Transit Ry. Co., has stated that the company will expend $175,000 during the coming summer for improvements. Orders have already been placed with the Loraine Steel Co. for $40,000 worth of rails. Seven new cars, a 500-K-W. dynamo and a 1,000-HP. engine will be purchased at once. Plans for these are being prepared. The question of building an extension to Onondaga Castle is being considered.

ASBURY PARK, N. J.—S. F. Hazebrigg, Gen. Mgr., Atlantic Coast Electric R. R., informs us that the contract for the building for a new power station has been let to A. A. Taylor, Asbury Park.

TRENTON, N. J.—The Philadelphia, Trenton & New York R. R. has been incorporated with $500,000 capital stock, for the purpose of building and operating a trolley line through this city, as a part of the proposed Johnson road from New York to Philadelphia.

WOODBRIDGE, N. J.—The township committee has granted a franchise to the Raritan Traction Co. to operate a trolley line 1,700 ft. in length in this township. The company must make road improvements amounting to $4,000.

HARRISBURG, PA.—The State Department has issued the following charters for trolley lines, involving the expenditure of from $3,000,000 to $5,000,000, and connecting the important suburban towns within a radius of 25 miles of Philadelphia: The Philadelphia, Norristown & Phoenixville road will start at the county line of Bala, extend north on the west and south banks of the Schuylkill River, pass through West Manayunk, West Conshohocton, Bridgeport and run thence to Phoenixville; the West Chester & Wilmington road will extend from West Chester over the Wilmington turnpike to the State line, with a branch from Painter's Crossroads to Media; the Philadelphia, Wayne & West Chester road will run from West Chester to Wayne, thence to the county line in West Philadelphia; the Coatesville, Downingtown & West Chester road will run from West Chester to Marshallton, thence to the east branch of the Brandywine Creek to Downingtown, thence by turnpike to Coatesville; there will also be a branch from Marshallton along the Strasburg road to Coatesville; the Parksburg & Coatesville road will run along the Valley road, through the township of Valley, from Parksburg to West Chester; the Chester, Wayne & Norristown road will extend from Chester to Media by the Providence road; thence to Newtown Square by the Newtown road and thence to Wayne; from Wayne the line will extend to King of Prussia, and thence to Norristown. Albert B. Kelley, Samuel A. Boyle, Jr., and Dr. Arville Horwitz are incorporators.

EASTON, PA.—Philadelphia parties have gone over the proposed Cement Belt St. Ry. and the Easton, Tatamy & Bangor roads, and it is reported that the construction will be started at once. The former road will run from Nazareth to Bath and Chapman quarries, and from Bath to Siegfried's bridge. The last-named road runs from this city direct to Bangor. Both roads will reach the cement and slate districts. H. S. Doan, Pres. West End Trust & Safe Deposit Co.; Frank P. Tobey, Pres., Allison Mfg. Co., and E. H. Tennis, of the Tennis Construction Co., are interested.

JOHNSTOWN, PA.—The contract for completing the Johnstown Passenger Ry. Co. line to Windber, has been let to the C. H. Sims Co., of Philadelphia.

PITTSBURG, PA.—The Southern Traction Co. will begin work on the improvements on its line connecting Elliott, Ingram and Cropton, which will cost about $100,000. A bridge will be built over the Panhandle tracks at Ingraham.——A charter has been granted to the Coraopolis & Monaca Electric Railway Co. for constructing a line between those points, 12 miles. Surveys were completed some time ago and work will probably be started at an early date. Henry Cooper, Bellevue; J. C. Whitle, Beaver Falls, and Herman W. Klein, Allegheny, are interested.

FREDERICKSBURG, VA.—A movement is on foot to construct an electric road from this city into Madison and Rappahannock counties by way of Remington and Culpeper.

RICHMOND, VA.—The Richmond & Petersburg Electric Ry. Co. has petitioned the council for an entrance into this city.

WILMINGTON, N. C.—Local papers state that $10,000 has been raised for the proposed electric freight and passenger line between this place and Fayetteville.

WHEELING, W. VA.—Local papers state that the directors of the Northern Ohio Valley Ry. Co. have decided to begin the construction work on the company's proposed road, which will connect Wheeling and Wellsburg. The road must be completed within 18 months. The following men, Geo. M. Snook, Henry J. Arbenz and W. C. Ebberts, have been appointed a committee to secure bids.

NATCHEZ, MISS.—James Z. George, Ch. Engr., Vicksburg, writes that a preliminary survey only has been made for this proposed line of eight miles. Construction will not begin until next fall.

LOUISVILLE, KY.—J. Lewis Williams, Pres., Louisville & West Point Electric Ry., Louisville, informs us that a preliminary survey for the company's road has been made and most of the rights of way have been secured. Bonds have not yet been issued. The road will be 20 miles in length, and will run through Pleasure, Ridge Park and other small towns. C. C. Roe, Ch. Engr.

DAYTON, O.—The Dayton & Xenia Traction Co. has been incorporated with $800,000 capital stock by C. J. Ferneding, O. O. Ozias and J. E. Carson, to build an electric railway in this city. The company will purchase the Dayton & Xenia interurban line.

INDIANAPOLIS, IND.—The Garrett, Auburn & Northern Electric Ry. Co. has been incorporated with $10,000 capital stock. The projected road will extend from Garrett to a point on the shore of Fish Lake, in the extreme northern point of the state. J. D. Hauseman, F. S. Mitchell and J. F. Cameron are directors.

INDIANAPOLIS, IND.—Local papers state that the Indianapolis & Greenfield Rapid Transit Co. is making arrangements for extending its line from Greenfield to Knightstown, a distance of 12 miles. It is said that the contract for the construction has already been let and that operations will be begun within the next 90 days. L. E. McDonald, Mgr., Greenfield.

VINCENNES, IND.—B. G. Hudnut, Pres., Citizen's St. Ry., of Vincennes, has petitioned the county commissioners for a right of way in Knox county. It is proposed to build a line connecting this city with Monroe City, Wheatland, Decker, Bicknell, Edwardsport, Westphalia, Sandborn, Bruceville, and Oaktown. If permission is granted work will begin within one year.

DETROIT, MICH.—Grading has been started on the Detroit & Bay City Electric Ry., between Pontiac & Clarkston, covering about 10 miles of the total 75 miles of roadbed. The road will be equipped with a single-track passenger service, although a right of way for a double track has been secured. The general contractors for the power house are the Seidler-Miner Electric Co., Detroit. They have sub-let the work as follows: Generators, General Electric Co.; engines, Russel Engine Co.; steam fitting, Arbuckle-Ryan Co.; pumps, Laidlaw-Dunn-Gordon Co.; boilers, J. McGregor & Sons; water pipe, U. S. Foundry, Cincinnati; sewer pipe, Little, Detroit; hydrants and valves, Michigan Brass & Iron Works, Detroit. The total contract amounts to $90,000. Field & Hinchman, Supervising Engrs., Detroit.

DETROIT, MICH.—The International Construction Co., of this city, is reported to have closed a contract with the Indianapolis, Rushville & Morristown Electric Ry. for the construction of that company's road, the price being $755,000. C. H. Lawrence is General Manager of the construction company.

JACKSON, MICH.—It is stated that the Detroit & Chicago Traction Co. has let contracts to the General Electric Co. for the machinery for the powerhouse which the company will build in this city, and for the electrical equipment, between Jackson and Ann Arbor. The first-named contract will amount to $171,842, and the latter $40,000.

MATTOON, ILL.—The directors of the Charleston & Mattoon Electric Ry. Co. have decided to issue $200,000 in bonds for the construction of a line of railway 12 miles in length, on which work will be started this spring. An extension will probably be built to Springfield via Fullers Point, Sullivan, Todds Point and Taylorville. The promoters are Forbes Holton, Huntington, W. Va., and Henry Rawis,. Anderson, Ind.

OTTAWA, ILL.—Local papers state that a local company will be organized, to be known as the Buffalo Rock St. Ry. Co., for the purpose of constructing a line from the terminus of the Ottawa Ry., Light & Power Co.'s road in West Ottawa to Buffalo Rock.

PARIS, ILL.—A. J. Hunter, Pres., Paris, informs us that the rights of way for the 19-mile electric line of the Inter-State Ry., Light & Power Co. are now being obtained, and that the survey is now under way and will be finished in about two weeks. Sufficient capital is not yet secured for beginning operation. The projected road will run from Paris to Clinton, Ind. The chief engineer has not yet been appointed.

CENTERVILLE, IA.—W. M. Peatman, Pres. Oskaloosa St. Ry. & Light Co., Centerville, informs us that rights of way for the electric line to be built by the company between Oskaloosa and Beacon, six miles, have been secured. All details pertaining to construction have been arranged and contracts will be awarded some time next month. In addition to the railway the company will put in a lighting plant and a heating plant.

TOPEKA, KAN.—A charter has been issued to the Iola Electric Ry. Co., which company proposes to build an electric line in Iola and extending to the numerous small towns in the vicinity. Work will be started this summer. The company is capitalized at $50,000. F. V. Crouch, Pres., Carrollton, Mo.; L. L. Northrup, Vice-Pres., Iola.

KANSAS CITY, MO.—The Metropolitan St. Ry. Co. has received bids for 50 new trolley cars to be used on the 27th St., Indiana Ave. and Springfield Ave. lines, which will be built this summer. Contracts for building these lines will soon be let. C. F. Holmes, Gen. Mgr.

SANTA BARBARA, CAL.—The Santa Barbara Consolidated Electric Co. will relay two miles of track in this city with heavy rails. Two new cars will be purchased. H. V. Carter, Pres.

ELECTRIC LIGHT AND POWER.

CAMDEN, ME.—The council has let the contract for street lighting to the Knox Gas & Electric Co.

GLOVERSVILLE, N. Y.—John Begley is said to be interested in a company which will erect a plant here to cost about $40,000.

UTICA, N. Y.—Reports state that the Equitable Gas & Electric Co. will erect an electric plant, 120 × 100 ft., at its gas works at the foot of Seneca St. A. N. Brady, Pres.; E. A. Pinkney, Mgr.

McKEESPORT, PA.—Reports state that Councilman Harry Butt is in favor of issuing $50,000 in bonds for erecting a municipal plant.

READING, PA.—The Philadelphia & Reading Ry. Co. will, it is said, erect a new power house on North Sixth St., near Perry St.

SHARPSBURG, PA.—E. C. Hulbert, Borough Engr., writes us that on April 4 this town voted to issue $30,000 in bonds for improving the plant and water-works.

WARRINGTON, PA.—Benjamin F. Dilliard, of Bangor, is reported to have purchased land on Paulin's Kill, in which a dam will be built, and a power house erected to furnish power to Portland, Columbia and other nearby towns.

DOVER, DEL.—George F. Matthews, Ch. Engr., writes us that the city will not make any extensions or additions to its plant at present.

HOGANSVILLE, GA.—Press reports state that the council has let contracts for erecting a plant and water-works.

DUBLIN, GA.—T. D. Smith, Clk., writes us that bids will be received as soon as bonds are sold for erecting a municipal plant to operate 36 arc and 1,300 incandescent lights, and cost about $5,000.

ROCKY MOUNT, N. C.—Bids are asked until April 20 for one 13 × 14-in. high-speed automatic engine, one 72 × 18-in. boiler, one 90-K-W. alternator, 70,000 ft. wire, cross-arms, heater, insulators, etc. J. L. Ludlow, Engr., Winston.

DAYTONA, FLA.—Adam Schantz, of Dayton, O., will erect an electric plant and also a cold-storage plant, according to reports.

BESSEMER, ALA.—On April 23 this city will vote on the question of issuing bonds for erecting a municipal plant.

CENTERVILLE, ALA.—Local papers state that ex-Sheriff Robert Vance will erect a plant and water-works here.

GLOSTER, MISS.—Reports state that this town has engaged C. H. Jenks, of St. Louis, Mo., to prepare preliminary plans and estimates for a plant and water-works.

GREENVILLE, MISS.—Henry Crittenden is interested in a company which proposes to erect a plant to cost about $25,000. G. Jager, of Rich Hill, Mo., will have charge of the construction.

LEXINGTON, MISS.—We are informed that the Lexington Ice, Light & Water Co., will only make ice at present. An electric plant will be installed later. J. E. Stanfield, Pres.

COVINGTON, LA.—The contract for erecting the proposed plant here is said to have been let to R. S. Stearns & Co., of New Orleans.

MONROE, LA.—The mayor has been authorized to purchase the plants of the Monroe Water-Works & Light Co. for $75,000.

CLIFTON, TENN.—Reports state that Mr. Mansfield, of Bell Buckle, will erect a plant here.

GALLATIN, TENN.—The legislature has passed a bill authorizing this city to issue bonds for erecting a municipal plant.

TULLAHOMA, TENN.—A special election will be held April 25 to vote on the question of issuing $10,000 in bonds for erecting a municipal plant.

WINCHESTER, TENN.—C. F. Gattis, Secy., writes us that the committee is now ready for bids for erecting a plant, to operate 20 arc and 500 incandescent lights, to cost about $26,000. Two engineers have been over the ground, but none has yet been engaged.

NILES, O.—It is stated that the Wiswell-Pritchard Electric Co. will erect a plant here.

INDIANAPOLIS, IND.—The contract for erecting the new power plant for J. W. and Edward Schmidt, at Maryland and Pennsylvania Sts., to cost about $250,000, is said to have been let to John Wocher & Co.

KENDALLVILLE, IND.—This city has not as yet engaged an engineer to prepare plans and specifications for the proposed municipal plant.

MICHIGAN CITY, IND.—James Lynn, of Wabash, has applied to the council for a franchise for a plant, according to reports.

VASSAR, MICH.—W. J. Spears, Pres., writes us that no steps have yet been taken toward erecting a municipal plant.

ALDEN, IA.—This town is said to have voted to grant a franchise for a plant.

FAIRFIELD, IA.—Reports state that this town has voted to erect a municipal plant.

WATERLOO, IA.—The people of this city have voted to grant a franchise to the Waterloo Gas & Electric Light Co., to erect a plant. George McLean, Pres., Dubuque.

EAST GRAND FORKS, MINN.—The people of this city are said to be in favor of issuing bonds for erecting a plant and water-works.

STANTON, NEB.—Bids are asked, according to reports, by the Stanton Water Power Co. until April 15 for constructing a power dam across the Elkhorn River, with all necessary raceways, etc.

MINOT, N. DAK.—The council is said to have granted L. M. Davis a franchise to erect a plant.

BUTLER, MO.—On April 2 the people of this city voted to issue $10,000 in bonds for erecting a municipal plant.

SPRINGFIELD, MO.—Hugh J. McGowan, of Kansas City; Albert H. Craney, of St. Louis, and Wm. Findlay Brown, of Philadelphia, Pa., are said to have applied to the council for a franchise for a plant.

HOT SPRINGS, ARK.—Press reports state that the council is now receiving estimates on a municipal plant.

EATON, COLO.—F. N. Thomas, Mayor, writes us that bids will be received in about 30 to 60 days to erect a municipal plant, to cost about $2,000. Bonds were voted on April 2.

FLORENCE, COLO.—It is stated that the Canon City Electric Light & Power Co. has applied to the council for a franchise. H. B. Slater, Mgr.

RIVERSIDE, CAL.—The West Riverside Power Co. will build a power house at the Narrows and transmit power to this city, according to reports.

SAN FRANCISCO, CAL.—City Engineer Gumsky and Prof. C. L. Cory are said to estimate the cost of building a municipal plant at $1,375,930.

PHOENIX, ARIZ.—Reports state that the Phoenix Light & Fuel Co. will develop the power in the Arizona Canal, about 20 miles east of this city. D. W. Beldon, Supt.

SPANISH FORK, UTAH.—Local papers state that this city and Springville are considering the question of erecting a plant to be used jointly by the two cities and cost about $30,000.

TRURO, N. S.—The council is said to be considering the question of erecting a plant.

BRIDGES.

WASHBURN, ME.—It is reported that at a town meeting held on March 18 it was voted to issue bonds to the amount of $10,000 for erecting a new steel bridge across the Aroostock River. A bridge committee has been appointed as follows: Turner Wilder, A. E. Howes and Alex. Easler.

WEST CLAREMONT, N. H.—A town meeting will be held on June 11 to consider the proposition of building a steel bridge across the Sugar River at this place. J. L. Rice, Supt. Claremont Water-Works Co.

BOSTON, MASS.—The committee on metropolitan affairs and roads and bridges gave a hearing on March 20 on the bill to authorize the metropolitan park commission to construct a bridge over the Mystic River between Medford and Somerville at a cost of about $250,000.

EAST NORTHFIELD, MASS.—Ambert G. Moody, of this place, is said to have secured pledges for $17,000 of the $25,000 necessary to build a bridge across the Connecticut River, about half a mile above the present wooden structure. The estimated cost of the proposed bridge is $35,000, of which the town will pay $10,000. The remaining $8,000 will probably be offered by the Central Vermont R. R.

LONG ISLAND, L. I.—The question of building a bridge across the Newtown Creek at Vernon Ave. has been compromised by the department of bridges and the property

owners. It is now proposed to construct a high level bascule bridge with a viaduct approach extending from the bridge over the tracks of the Long Island R. R. and coming to the surface at Fourth St.

NEW YORK, N. Y.—Bids are wanted by the commissioners of the New East River Bridge, 258 Broadway, until April 25, for constructing the steel suspended structure of the New East River Bridge, as stated in our advertising columns. Lewis Nixon, Pres.

OSWEGO, N. Y.—The town board has decided to erect iron bridges across Three-Mile Creek,near Oswego Center. The bridges will be from 30 to 36 ft. span. Final action will be taken in the matter on April 16.

PENN YAN, N. Y.—A bill has passed the assembly appropriating $2,400 for the repair of the Liberty St. bridge.

THREE-MILE BAY, N. Y.—The town board of Lymer has appropriated $10,000 for the construction of a steel bridge over the Chaumont River at that place.

HAMMONTON, N. J.—The Atlantic City R. R. Co. has been given permission to erect an overhead bridge across 11th St.

BEAVER, PA.—Bids are wanted by the county commissioners until April 12 for constructing a bridge, according to reports.

BRADFORD, PA.—P. B. Winfree, Cy. Engr., informs us that the following contracts were awarded on April 1 for bridge work: Lane Bridge Co., removing bridge, $400; Mechanic St. bridge, $2,700; bell tower, $800; Owego Bridge Co., Washington St. bridge, $3,178; Boraird & Seyfang, Foreman St. bridge, $1,300; masonry abutments, Z. Hill, Barbour St. bridge, $868; Foreman St. bridge, $717; Washington St. bridge, $1,055.

LANCASTER, PA.—The following bids were received by the county commissioners on April 4 for constructing a bridge over the Cocalico Creek, in Ephrata, to be 85 ft. in length, iron structure: Canton Bridge Co., $1,250; F. R. Long Co., $1,298; North Penn Bridge Co., $2,506; Penn Bridge Co., $1,111; King Bridge Co., $1,248 and $1,100; Nelson & Buchanan, $1,225; E. S. Cheney, $2,300; Dean & Westbrook, $1,498; Berlin Construction Co., $1,185; William H. Gulick, $1,490; York Bridge Co., $1,100 and $1,150; Oswego Bridge Co., $1,339 and $1,498. Stone bridge: E. McMellen, $2,067; E. S. Cheney, $2,500.

ATLANTA, GA.—The Peyton road bridge, which spans a stream about five miles from this city, was carried away during the recent storm.

GAINESVILLE, GA.—It is stated that the county commissioners will rebuild Brown's bridge in Forsyth county.

BRISTOL, TENN.—Bids are asked until May 1 for building one steel plate girder bridge, 40 ft. in length, having a total width of 65 ft., and a steel girder bridge, 24 ft. in length, width, 65 ft. H. E. Jones, Bristol, Tenn.

COOKEVILLE, TENN.—The business men of this place and Sparta are agitating the question of building a bridge across the Falling Water Creek and a pike between these points.

LYNCHBURG, TENN.—An effort is to be made to induce the quarterly court to authorize the construction of a new steel or stone bridge to replace the present structure over East Mulberry Creek, in the eastern part of the town.

ASHLAND, KY.—The Ashland-Ironton is preparing plans for a bridge with a channel span of 750 ft., as ordered by the U. S. Engineers Office. A. C. Campbell, Secy.

LONDON, O.—Bids are reported wanted by the county commissioners until April 27 for constructing a bridge over Little Darby Creek, one over Deer Creek and a third over Bradford Creek. B. H. Taylor, County Audr.

WASHINGTON C. H., O.—Bids are wanted by the county commissioners until April 29 for constructing the substructure for the Fayette St. bridge over Paint Creek.

INDIANAPOLIS, IND.—A petition will be presented to the county commissioners for the construction of a bridge across Fall Creek at College Ave.

MARTINSVILLE, IND.—The county commissioners have awarded a contract to the Massillon Bridge Co. for constructing an iron bridge across Statts' Creek, at $1,026.

CHICAGO, ILL.—Bids are asked until May 4 for the superstructure for a single track railway bridge across the Illinois and Mississippi Canal, near Tampico, Ill. Maj. J. S. Willard, U. S. Engr., 1637 Indiana Ave.

FREEPORT, ILL.—The highway commissioners have awarded a contract to the Massillon Bridge Co., Massillon, O., for erecting the Stephenson St. bridge, at $18,000. The bridge will be a steel structure. The masonry work has been let to local contractors at about $1,500.

DUBUQUE, IA.—The contract for building the Eagle Point high bridge in this city has been let by the Dubuque & Wisconsin Bridge Co. to Toledo Bridge Co., Toledo, O. The bridge will span the Mississippi River. It will be 55 ft. above high water mark and 1,100 ft. in length, approaches not included.

LITTLE FALLS, MINN.—The board of county commissioners has decided to build the proposed bridge across the Crow Wing River at Sylvan Station.

MANKATO, MINN.—Bids are reported wanted by Ole Andengaard, Town Clk., until April 13 for building a stone culvert in section 5, town of Decoria.

MANKATO, MINN.—Widell & Co., of this place, have secured contracts for building three stone bridges on the Chicago & Northwestern road.

OMAHA, NEB.—Local papers state that the Winter Creek precinct, Scotts Bluff county, will vote on the proposition of issuing bonds to the amount of $6,500 for the construction of a bridge over the North Platte River.

LAMPASAS, TEX.—Bids are asked until April 16 for constructing two wagon bridges across the Colorado River, one near Red Bluff crossing and one near Bend crossing. Estimates for a one and steel piers will be excepted; stone is preferable. D. C. Thomas, County Judge.

SAN SABA, TEX.—Bids are asked until April 16 for three bridges, two across Richland Creek, and the third over the Colorado River. Stone piers are preferred. John Seiders, County Judge.

EL RENO, OKLA. TER.—The Commercial Club will begin work at once on a wagon bridge, over the South Canadian River near here, to cost about $10,000.

LOS ANGELES, CAL.—The board of public works has approved the plans for the new Atchison, Topeka & Santa Fe Ry. bridge over the river in this city. The structure will be 580 ft. in length, composed of two 200-ft. spans and two 90-ft. girder spans. The width will be 16 ft. Estimated cost, $114,149.—The proposition of building a bridge between Azusa and Duarte is being considered, according to reports. A pile structure is estimated to cost $5,000, while a steel bridge would amount to about $20,000.

SAN MATEO, CAL.—R. H. Jury, City Clerk, informs us that the board of trustees have engaged D. Bromfield, Engr., to prepare plans, specifications, estimates, etc., for four steel or iron bridges in this city. A bond issue will be made.

FREDERICTON, N. B.—Bids are reported wanted by the provincial public works department until April 16 for rebuilding the Little Northwest bridge, near Richibucto.

RAT PORTAGE, ONT.—Thos. R. Deacon, C. E., writes us that the town council is asking the provincial government for aid in the construction of a steel bridge over the East branch of the Winnipeg River. Estimates and profiles of soundings have been submitted to the council by Mr. Deacon. Nothing further has been done.

BUILDINGS.

BRUNSWICK, ME.—It is stated that a new library building will be erected at Bowdoin College, to cost about $200,000.

NASHUA, N. H.—We are informed that the public library trustees have decided to erect a new building, to cost about $50,000. S. C. Gilman, Clk. Bd.

PORTSMOUTH, N. H.—We are informed that the following bids were received April 6 by M. T. Endicott, Chief Bureau Yards and Docks, Navy Dept., Washington, D. C., for constructing a brick and steel shop building, 497×40 to 80 ft., at the navy yard, (1) being price for the plate, angle, smith and beam shed and the smith shop complete, according to plans and specifications, (2) for the two buildings complete as per No. 1, with addition of copper gutters along lower edge of roof in sections not over 100 ft. long and hard-rolled copper conductors, shown on sheet No. 1, (3) price for plate, angle, smith and beam shed alone, as included in item No. 1, and shown on drawing No. 1, (4) price for smith shop alone, as included in item No. 1, and shown on drawing No. 2, (5) price for entire work on bidders' specifications in case other bids exceed appropriation, which is $57,000: Conners Bros., Lowell, Mass., (1) $63,800, (2) $64,780, (3) $36,654, (4) $28,192, (5) $57,000, conditional; O'Brien & Hoolihan, Syracuse, N. Y., (1) $56,189, (2) $56,689, (3) $29,689, (4) $27,000; Head & Dowst Co., Manchester, N. H., (1) $61,785, (2) $62,620, (3) $34,938, (4) $27,682; Stone & Thurston, 220 Broadway, New York, N. Y., (1) $63,809, (2) $65,428; (3) $37,339, (4) $26,470; L. L. Leach & Son, 1402 Marquette Bldg., Chicago, Ill., (1) $62,000, (2) $62,900 conditional, (3) $33,000, (4) $29,000, (5) $57,000 conditional; Norcross Bros., Syracuse, N. Y., (1) $62,101, (2) $62,976, (3) $34,545, (4) $27,556, (5) $57,000 conditional; Snare & Triest, 39 Cortlandt St., New York, N. Y., (1) $64,632, (2) $65,428, (3) $36,162, (4) $28,470, (5) a. $61,900, b. $56,300; Penn Bridge Co., Beaver Falls, Pa., (1) $58,900, (3) $32,600, (4) $26,300, (5) $55,835; Mead, Mason & Co., 520 Tremont St., Boston, Mass., (1) $69,000, (2) $70,000, (3) $38,000, (4) $31,000, (5) $57,000.

NEWPORT, R. I.—The following bids were received April 2 by A. K. Van Reypen, Surgeon Gen., U. S. N., Washington, D. C., for erecting an addition to the hospital building here: Michael A. McCormick, Newport, R. I., $39,865; R. W. Curry, Newport, R. I., $29,900; Charles E. Currier, Boston, Mass., $30,955; John Dillon, Newport, $29,000; Anderson-Murphy Co., Hoboken, N. J., $38,456; Joseph M. Darling and Eldorus C. Slade, Fall River, Mass., $31,950; Lucas & Burbidge, Newport, R. I., $30,423; W. H. Glover Co., Inc., Rockland, Me., $31,240; J. W. Bishop Co., Worcester, Mass., $31,850; Charles N. Dodge Construction Co., Boston, Mass., $36,385.

ANSONIA, CONN.—A committee has been appointed to select a site and arrange for an appropriation of $60,000 for erecting the proposed new city hall building. James S. Hall, Cy. Engr.

NEW HAVEN, CONN.—The contract for erecting the new medical building at Yale University, to cost about $96,000, is said to have been let to Treat & Sperry, Hoadley Bldg.

UNIONVILLE,, CONN.—Bids are asked by the building committee until April 17 for erecting a new town hall. O. A. Beckwith, Jr., Chn.

BROOKLYN, N. Y.—Plans have been filed by Martin Rourke, Owner and Architect, 231 Monitor St., for eight 3-story brick tenements, 20×55 ft., at Sutton St., near Nassau Ave., to cost about $32,000; by J. Bayer, 49 Hamburg Ave., for five 3-story brick dwellings, 26×80 ft., at Gates Ave., near Bushwick Ave., to cost about $30,000, W. Debus, Arch., 808 Broadway; by J. A. Caulfield, 469 Marion St., for ten 3-story brick flats, at Chauncey St., near Broadway, to cost about $95,000, W. J. Ryan, Arch., 164 Ryerson St.;by F. Berlenbach, 838 Flushing Ave., for three 4-story brick tenements, 20×57 ft., at Vanderbilt Ave., near St. Marks Ave., to cost about $30,000, C. H. Richter, Jr., Arch., 68 Broad St., N. Y.; by W. F. Clayton, 140 Bainbridge St., for 11 3-story brick dwellings, 20×47 ft., at McDonough St., near Reid Ave., to cost about $55,000; by L. Bonert, Sixth Ave. and Third St., for four 4-story brick tenements, 32×90 ft., at Third St., near Fifth Ave., to cost about $72,000, T. Bennett, Arch., 198 53d St. ——We are informed that the contract for erecting the proposed 2-story brick church building at Bushwick Ave. and Madison for the Bushwick Ave. M. E. Church, to cost about $50,000, has been let to Hopkins & Roberts, 245 Broadway, New York. Rev. William A. Layton, Pastor.

ELLIS ISLAND, N. Y. H.—Bids are asked until April 22 for constructing a waiting shed addition to the covered-way and for completing the second story of the kitchen and restaurant, bath and laundry and the boiler house at the U. S. Immigrant Station. James K. Taylor, Supv. Arch., Treasury Dept., Washington, D. C.

KINGSTON, N. Y.—Charles M. Ryon, Secy. School Dist., writes us that contracts will probably be let the first week in May for erecting the proposed 2-story brick school house, 80×110 ft., to cost about $25,000. Charles E. Hillyer, Arch., 28 Ferry St.

NEW YORK, N. Y.—Plans have been filed by Herman Horenburger, for two 6-story brick flats, at 42 and 44 Broome St., to cost about $35,000, Horenburger & Straub, Archs., 122 Bowery; by Friedman & Feinberg, 329 East 116th St., for a 6-story flat, at Rivington and Allen Sts., to cost about $50,000, M. Bernstein, Arch., 245 Broadway; by A. Silverson, 236 East 61st St., for a 7-story brick flat, at Broome and Orchard Sts., to cost about $55,000, M. Bernstein, Arch.; by Beno Levy, 17 Division St., for a 6-story brick flat, at 28 Division St., to cost about $35,000, M. Bernstein, Arch.; by Louis Rinaldo, 233 Grand St., for three 6-story brick flats, at 84 to 88 Elizabeth St., to cost about $75,000, M. Bernstein, Arch.; by Elias Kempner, 35 Nassau St., for a 7-story brick flat, at 101st St. and West End Ave., to cost about $215,000, Geo. F. Pelham, Arch., 503 Fifth Ave.; by C. W. Martin, 1459 Brook Ave., for a 7-story brick flat, on 49th St., near Broadway, to cost about $90,000. Neville & Bagge, Archs., 217 West 125th St.; by Analie Wahrman, 1325 Fifth Ave., for four 5-story brick flats, at 117th St., near Madison Ave., to cost about $88,000, Henry Anderson, Arch., 1181 Broadway; by Eliza McManus, 124 East 72d St., for two 5-story brick flats, at 117th St., near Fifth Ave., to cost about $50,000, Harry T. Howell, Arch., Brook Ave., near 138th St.; by Julius Fleischman, 1487 Fifth Ave., for a 5-story brick flat, at 137th St., near Lenox Ave., to cost about $23,000, and for four 5-story brick flats, at 137th St. and Lenox Ave., to cost about $91,000, George F. Pelham, Arch.; by Sauer, Gross & Hebner, 548 East 87th St., for a 5-story brick flat, at 130th St., near Lenox Ave., to cost about $34,000. Neville & Bagge, Archs., 217 West 125th St.; by Ernest Wenigman, for 12 2½-story dwellings, on Clay Ave., near 165th St., to cost about $96,000, W. C. Dickerson, Arch., 534 Willis Ave.; by Alexander Cameron, for a 5-story brick flat, at 152d St. and Bradhurst Ave., to cost about $30,000, J. C. Cooke, Arch.; by Samuel Brasch, 51 Bowery, for four 7-story brick tenements, each 25×90 ft., at 518 to 524 East 12th St., to cost about $112,000, George F. Pelham, Arch.; by Gordon, Levy & Co., 159 Canal St., for a 6-story brick flat, 38×70 ft., at 182 and 184 Allen St., to cost about $32,000, John P. Cleary, Arch.; by John Kafka, 231 East 72d St., for two 7-story brick flats, 25×88 ft., at 192 Bleecker St., to cost about $52,000, John P. Cleary, Arch.; by Samuel Green, 302 Broadway, for a 7-story brick flat, 50×90 ft., at 94th St. near Madison Ave., to cost about $80,000, John P. Cleary, Arch.; by M. F. Cusack, 153 Prospect Place, Brooklyn, for four 5-story brick apartment houses, each 25×80 ft., at 178 to 184 East 101st St., to cost about $60,000, A. Sevestre, Arch., 190 East 101st St.

NEW YORK, N. Y.—Plans have been filed by A. Perelman, premises, for two 7-story brick tenements, 40×90 and 95 ft., at Stanton and Chrystie Sts., to cost about $60,000, M. Bernstein, Arch., 245 Brodway; by D. Rosenbaum, 153 East 80th St., for three 5-story brick flats, 25×85 ft., each, at 115 to 119 East Washington Place, to cost about $60,000, Charles Rentz, Arch., 153 Fourth Ave.; by Sobel & Kean, 1487 First Ave., for a 7-story brick tenement, 30×60 ft., at First Ave. and 32d St., to cost about $50,000, M. Bernstein, Arch.; by Spielburg & Stein, premises, for two 6-story brick flats, each 25×86 ft., at 634 and 636 East Fifth St., to cost about $50,000, M. Bernstein, Arch.; by John Katzman, premises, for three 6-story brick flats, each 22×90 ft., at 734 to 740 East Fifth St., to cost about $75,000, M. Bernstein, Arch.; by the Mela Realty Co., 41 Union Square, for a 10-story brick flat building, 100×83 ft., at Sixth Ave. and 58th St., to cost about $550,000, Robert T. Lyons, Arch., 41 Union Square; by the Central Building & Improvement Co., for a 7-story brick apartment house, 122×90 ft., at Seventh Ave. and 143d St., to cost about $240,000, Henri Fouchaux, Arch.; by A. C. & H. M. Hall, 9 East 42d St., for a 7-story brick and stone flat, 100×102 ft., at Seventh Ave. and 142d St., to cost about $250,000, Neville & Bagge, Arch., 217 West 125th St.; by Frank A. Seitz, for four 5-story brick flats, 25×85×94 ft., at Seventh Ave. and 143d St., to cost about $102,000, John Hauser, Arch.; by A. V. Donellan, 72 West 108th St., for a 7-story brick and stone flat, 42×82 ft., at 60 West Tenth St., to cost about $120,000, Harry B. Mulliken, Arch., 289 Fourth Ave.; by Friedman & Feinberg, for a 6-story brick flat, at 218 and 220 East 11th St., to cost about $40,000, M. Bernstein, Arch.; by Charles I. Weinstein, 302 Broadway, for three 6-story brick flats, at 330 to 334 East 12th St., to cost about $84,000, George F. Pelham, Arch., 503 Fifth Ave.; by Lowenfeld & Prager, 115 Broadway, for a 6-story brick flat, 40×87 ft., at 231 and 233 East 13th St., to cost about $45,000; by Abraham Eydenberg, 1 Union Square West, for two 7-story brick flats, 25×88 ft., at 344 and 346 West 14th St., to cost about $45,000, John P. Cleary, Arch., 1 Union Square West; by Max Freund, 8 Maiden Lane, for a 6-story brick tenement, 41×61 ft., at 144 and 146 East 17th St., to cost about $40,000, George F. Pelham, Arch.; by W. H. Livingston, 245 Broadway, for a 7-story brick flat, 56×88 ft., at 311 and 315 West 24th St., to cost about $60,000, M. Bernstein, Arch.

NEW YORK, N. Y.—We are informed that the Leopold Kahn Co., 93 St. Nicholas Ave., will let contracts for erecting a 7-story brick apartment house, 50×62 ft., at 373 Manhattan Ave., work to be started about May 1; J. E. Scharsmith, Arch., 477 West 144th St.——P. B. McEntyre & Son, 220 West 36th St., have been awarded the general contract for erecting the proposed 4-story fireproof building, 22×73 ft., at 216 East 20th St., for the Wayside Day Nursery, to cost about $25,000. The contracts for heating apparatus and fireproofing have not yet been let. William Strom, Arch., 39 Cortlandt St.——No contracts have been let for erecting the proposed 6-story brick tenement, 50×80 ft., at 213 West 62d St., for the City & Suburban Homes Co., 281 Fourth Ave., to cost about $45,000, Howells & Stokes, Archs., 47 Cedar St.——Philip Braender, 47 West 125th St., writes that no contracts have been let for erecting the 10-story brick apartment house, 100×117 ft., at Central Park West and 102d St., to cost about $400,000, F. C. Browne, Arch., 143 West 125th St.——We are informed that Ralph H. Reid, 62 Amsterdam Ave., has been awarded the general contract for erecting a 1-story brick church building, 22×70 ft., at 237 East 10th St., to cost about $40,000, for Frederick King, 62 Amsterdam Ave.; William A. Gorman, Arch., 1059 Ogden Ave.——The committee on buildings of the trustees of Columbia University have had plans prepared for a new college hall, to cost about $400,000.——It is stated that the Tilden Club will erect a new clubhouse on Broadway, near 75th St.

ATLANTIC CITY, N. J.—Edwin F. Durang, 132 States Ave., is said to have prepared plans for the proposed new church building, 76×150 ft., at Tennessee and Pacific Aves., to cost about $100,000.

ALLEGHENY, PA.—The high school committee has let the contract for an addition to the high school building here to H. A. Kunze, 510 East Diamond St., at $162,229. The other bids received were: Rose & Fisher, $172,000; Henry Shenk, $184,528; George A. Cochran, $169,495; John H. Trimble & Bro., $171,456; James Wherry & Co., $178,815; Cochran & Davis, $172,300; Charles Reif, Jr., $173,484; Deeds Bros., $173,000.

HAZLETON, PA.—Bids are asked until April 20 for erecting the proposed 4-story brick and stone office building, 70×150 ft., for L. G. Seager, to cost about $50,000; Henry H. King, Arch., 1213 Filbert St., Philadelphia.

PHILADELPHIA, PA.—The contract for erecting the 5-story brick factory building, 65×170 ft., at American and Cambria Sts., for Folwell Bros. & Co., to cost about $60,000, has been let to William Steele & Sons, 506 Walnut St. Joseph M. Huston, Arch., Witherspoon Bldg.——Reports state that Doyle & Doak, 1509 Sansom St., will erect a new addition to the store of Gimble Bros., at Eighth and Market Sts., to cost about $1,000,000.——The Osborne Apartment House Co. will, it is said, erect a 7-story brick apartment house, 125×140 ft., at Ridge Ave. and Osborne St., Wissahickon, to cost about $160,000; Milligan & Webber, Archs., 520 Walnut St.

PITTSBURG, PA.—The contract for erecting the proposed 3-story brick warehouse, 180×96 ft., at Third St. and Penn Ave., to cost about $60,000, is said to have been let to A. L. Huff; Ellsworth Dean, Arch., Penn Bldg.

WASHINGTON, D. C.—Bids are asked until April 26 for installing a heating apparatus in the northwest extension of the bureau of engraving and printing. James K. Taylor, Supv. Arch., Treasury Dept.——The Iowa Apartment House Co. will erect a 7-story apartment house at 2118 20th St., to cost about $100,000.

RICHMOND, VA.—The council has let the contract for erecting the new jail building to the Stuart Iron Works, of Cincinnati, O., at $58,990. The Van Dorn Iron Works, of Cleveland, O., submitted the only other bid at $59,995.

CHARLESTON, S. C.—Bids are asked until May 10 for constructing a fireproof storehouse near Ft. Moultrie, Sullivans Island, S. C., as stated in our advertising columns. Capt. J. C. Sanford, U. S. Engr.

CHARLESTON, S. C.—Bids are asked by the South Carolina Exposition Commission until April 14, 15 and 16 for erecting the agricultural palace for the South Carolina Inter-State and West Indian Exposition Co. B. L. Gilbert, Arch.-in-Chief; August Kohn, Secy. Com., Columbia, S. C.

HARTWELL, GA.—The contract for erecting the new courthouse here is said to have been let to W. W. McAfee, 13 South Broad St., Atlanta, at $25,469.

SAVANNAH, GA.—Bids are asked until April 15 for erecting a union passenger station and freight shed for the Savannah Union Station Co. T. S. Tutwiller, Engr.

HUNTSVILLE, ALA.—Frank Cox, 316 Barronne St., New Orleans, La., is said to have prepared plans for the proposed new opera house here.

JACKSON, MISS.—The county commissioners have decided to erect a new courthouse, to cost about $75,000.

NEW ALBANY, MISS.—Bids are asked until April 15 for erecting a new brick school house. W. S. Parks, Clk.

HUNTSVILLE, ALA.—We are informed that this city will erect a new school house, to cost about $20,000. S. S. Fletcher, Cy. Clk.; F. E. Murphy, Engr.

LAFAYETTE, LA.—Bids are asked until April 20 for erecting a 2-story brick dormitory for the Southwestern Industrial Institute. E. L. Stephens, Pres.

LAKE PROVIDENCE, LA.—The Enoch-Havis Lumber Co., Vicksburg, Miss., submitted the lowest bid, at $16,-500, for erecting the new courthouse here.

NEWROADS, LA.—Bids are asked by the police jury committee until May 15 for erecting a new brick courthouse for the Pointe Coupee parish. O. St. Digier, Chn.

MEMPHIS, TENN.—It is stated that B. F. Avery & Son, Union St., near Main, will erect a new warehouse, to cost about $30,000, on Shelby St., near Beale St.

BOWLING GREEN, O.—Bids are asked by the county commissioners until May 2 for erecting the new jail building here, to cost about $48,000. Becker & Hitchcock, Archs., Gardiner Bldg., Toledo.

DAYTON, O.—Bids are asked by F. M. Turner, Cy. Engr., until April 24 for constructing a 4-story brick hospital building, 300×100 ft., at the St. Elizabeth Hospital. C. J. Ferneding, Chn. Bldg. Com.

COLUMBUS, O.—W. Stillman Dutton, 814 New England Bldg., Cleveland, has prepared plans for a new law school building at the Ohio State University, to cost about $75,000.

LANCASTER, O.—Reports state that the question of issuing $40,000 in bonds for erecting a new school house here will be voted on at the spring elections.

MARION, O.—W. I. Pentz and L. A. Bishop, of Cleveland, are said to be conferring with the board of trade in reference to erecting a new hotel building, to cost about $80,000.

NORWOOD, O.—Fugman & Ulrich, Archs., 1634 Williamson Bldg., Cleveland, write us that no contracts have yet been let for the proposed new church building here.

OTTAWA, O.—Bids are asked until May 1 for erecting a 3-story brick Odd Fellows' Temple, 50×160 ft. S. Cartwright, Chn. Com. on Bldgs.; W. L. Kramer, Arch., 124 E. Main St., Findlay.

TOLEDO, O.—L. G. Welker, 932 The Spitzer, is said to have prepared plans for a 6-story brick and steel apartment house, 100×200 ft., at Madison and 13th Sts., to cost about $400,000.

INDIANAPOLIS, IND.—Adolph Scherrer, Indiana Trust Bldg., is said to be preparing plans for an apartment house at Vermont and Alabama Sts.

DETROIT, MICH.—Bids are asked until April 23 for erecting a life-saving station at Sleeping Bear Point and one at South Manitou Point, Mich. S. I. Kimball, Gen. Supt. U. S. Life Saving Service, Washington, D. C.

JACKSON, MICH.—We are informed that plans for the proposed 4-story brick and steel hotel building, 120×198 ft., for C. H. Ruhl, to cost about $90,000, will be completed about April 20. Claire Allen, Arch.

WYANDOTTE, MICH.—Bids are asked by the board of education until April 26 for erecting a school house in the Third Ward. F. J. Goodell, Secy.

CHICAGO, ILL.—Plans have been filed by John Morris for a 4-story brick apartment house, 43×65 ft., at 851 to 855 49th St., to cost about $25,000, Barfield & Hubbell, Archs., 87 Washington St., N. C. Jensen, Builder; by Northwestern University Settlement Co., for a 3-story brick settlement building, 78×64 ft., at 122 and 126 Augusta St., to cost about $26,000, Pond & Pond, Archs., Steinway Hall, Neil McMillan, Builder, 167 Dearborn St.; by Thomas G. Otis, for a 4-story brick apartment house, 115×44 ft., at 4455 to 4459 Woodlawn Ave., to cost about $60,000, Sidney Lovell, Arch., William Ritchie, Builder.

JACKSONVILLE, ILL.—Bids are asked until April 15 for installing a heating and ventilating apparatus in the proposed new high school building, and also for plumbing the same. Samuel B. Stewart, Clk.

WAUKESHA, WIS.—Reports state that Carl Barkhausen, 501 Iron Block, Milwaukee, has prepared plans and will soon let contracts for a new sanitarium for the Waukesha Sanitarium Co., to cost about $50,000.

COUNCIL BLUFFS, IA.—The Woman's Christian Association is said to have had plans prepared for a new 3-story brick hospital building, 78×126 ft., to cost about $50,000.

LEMARS, IA.—Press reports state that the contract for erecting the proposed new courthouse here, to cost about $70,000, has been let to E. Miller.

AITKIN, MINN.—Bids are asked until April 15 for erecting a new 2-story brick school house, 136×78 ft., to cost about $34,000, Fremont D. Orff, Arch., Lumber Exchange, Minneapolis; George F. Williams, Secy.

MINNEAPOLIS, MINN.—It is stated that J. E. Bell will erect a 5-story building at Fourth St. and Second Ave., N., to cost about $80,000.——The Electric Steel Elevator Co. will erect a steel tank elevator and 12 tanks, capacity 100,000 bushels each, at Marshall and 25th Aves., S. E., to cost about $120,000, according to reports.——Reports state that Lindsay Bros. will erect a warehouse on Seventh Ave., South, near Washington Ave., to cost about $35,000.——The Lillibridge-Bremner Co. will, it is said, erect a 6-story brick factory building at Third Ave., N., near Third St., to cost about $60,000.

HELENA, MONT.—The Sisters of Charity have decided to erect a new hospital building here, to cost about $45,-000, according to reports.

LEWISTON, MONT.—Competitive plans are asked by the county commissioners until April 27 for a new jail building, 37×50 ft. C. M. Kelly, County Clk.

ST. LOUIS, MO.—The grain elevator at the foot of Biddle St., owned by the St. Louis Elevator & Storage Co., was recently destroyed by fire; loss, about $650,000. H. G. Haarstick, Pres.

EVERETT, WASH.—Press reports state that the Everett Improvement Co. will erect a new theatre, 70×118 ft., to cost about $50,000. J. T. McChesney, Pres.

JOHN DAY, ORE.—Bids are asked until April 22 for erecting a 2-story school house here. C. H. Timins, Chn.

SACRAMENTO, CAL.—Local papers state that James Seadler, 1018 Eighth St., has prepared plans and specifications for the proposed new city hall building, to cost about $250,000.

SALT LAKE CITY, UTAH.—Reports state that the University Club will erect a new clubhouse, to cost about $25,000.——Christensen Bros. will erect a new building on State St., to cost about $50,000, according to reports.

PARRY SOUND, ONT.—Bids are asked until April 18 for erecting a new brick school house; D. McFarlane, Secy. School Bd.

WINNIPEG, MAN.—Bids are asked until April 19 for an addition to the building of the Bank of Hamilton. D. B. Dick, Arch., 17 Toronto St., Toronto, Ont.

WATER-WORKS.

BERWICK, ME.—The Berwick Water Co. has been formed to furnish this town with works. Chas. Bodwell, of Sanford, Me., and John E. Frost, of Berwick, are interested.

MACHIAS, ME.—The question of buying the works is being considered. A. R. Gilson, Selectman.

ESSEX, MASS.—The question of securing a new water supply from Conomo Point is being considered. E. Frank Stanwood, Moderator.

FALMOUTH, MASS.—J. T. Walker, Secy., writes us that $30,000 has been appropriated to be expended by the water commissioners for extending the mains and sinking 15 additional wells. A survey is being made by L. E. Hawes, Tremont Bldg., Boston. If a revenue is guaranteed on the amount of his estimate, then a call for bids will be issued.

GREAT BARRINGTON, MASS.—Percy M. Blake, of Newton and Boston, is reported to have recommended Harmon Brook in Monterey for a new water supply; estimated cost, $158,000.

RUSSELL, MASS.—The quetsion of works is being considered.

WESTFIELD, MASS.—An 8-in. main will be laid to Little River, and other improvements are proposed. C. N. Oakes, Clk.

WOONSOCKET, R. I.—The council has voted to issue $50,000 in bonds for extending the works, and $200,000 for sewers.

HARTFORD, CONN.—Rudolph Hering, 100 William St., New York, has reported in favor of the lower site for the proposed Granby reservoir.

NEW LONDON, CONN.—It is proposed to build two reservoirs and lay four miles of pipe to Lake Konomoc. Address Superintendent Richards.

SOUTH GLASTONBURY, CONN.—Louis W. Howe, an incorporator of the South Glastonbury Water Co., writes us that a charter has just been granted, and it is expected that the company will be organized in a short time. The works will cost about $15,000, and it is expected to have same completed this summer.

STAMFORD, CONN.—H. A. Parsons, Cy. Engr., writes us that the Stamford Water Co. is about to extend its mains to meet the Shippan Point Water Co. to pipe water to Shippan Point. The total length will be about three miles, of which the Stamford Company will lay about a mile. Geo. Whitney, Supt.

AUBURN, N. Y.—R. D. Wood & Co., of Philadelphia, have been awarded the contract for furnishing and installing a new 10,000,000-gallon pumping engine at $23,111.

BATH, N. Y.—It is stated that the question of the town ownership of the works is being considered.

BINGHAMTON, N. Y.—The water commissioners are investigating the question of water meters and filters. Dr. A. R. Leeds, Consult. Engr., Hoboken, N. J. Address Commissioners Grand and Bayless.

GOSHEN, N. Y.—Bids are asked by the board of water commissioners for excavating a canal in the upper reservoir, 2,800 ft. long, 30 to 200 ft. wide, and 4 to 6 ft. deep, as stated in our advertising columns. H. J. Yerk, Clk.

HAVERSTRAW, N. Y.—J. D. Reynolds, Receiver of the Haverstraw, West Haverstraw and the Stony Point Water Cos., proposes to spend about $30,000 for improvements. M. A. Driscoll, Supt.; Arthur Terry, Secy., 36 Wall St., New York.

HEMPSTEAD (L. I.), N. Y.—C. R. Lush, Pres., writes us that the village is negotiating with the water company for the purchase of the works or for the renewal of the lease. As soon as satisfactory terms can be arranged it will be submitted to a vote of the village. The people allege that the plant is in poor condition, and may require a proposition to build a new plant, which would, if put to a vote, undoubtedly carry.

JEFFERSONVILLE, N. Y.—V. Scheidell, supervisor, of Callicoon, N. Y., writes us that a meeting of the citizens of this place is about to be called to consider the advisability of creating a water district and installing works.

LOCKPORT, N. Y.—S. Q. Mingle, Pres. Depew Improvement Co., of Depew, N. Y., has submitted a proposition to build works and a power station to cost about $1,000,000.

NEW YORK, N. Y.—The Municipal Assembly has approved a bond issue of $1,800,000 for a reservoir at Massapequa, L. I. The proposed issue of $500,000 for repairing the Millburn reservoir was defeated.

YONKERS, N. Y.—A. W. Kingsbury, Clk. Water Comrs., informs us that the following bids were received April 8 for furnishing a boiler for the pumping station, as advertised in Engineering News: National Water-Tube Boiler Co., New Brunswick, N. J., $1,750; P. Delaney & Co., Newburg, N. Y., $1,225; Walker & Chambers, 50 E. 20th St., New York city, $1,335; Edwin Burhorn, 62 Wall St., New York, $1,090; J. M. Duncan, 39 Cortlandt St., New York, $1,130; Watertown Engine Co., Watertown, N. Y., $1,135; Olney & Warren, 36 Dey St., New York, $1,075; Burhorn & Granger, 95-97 Liberty St., New York, $1,090; Oswego Boiler Works, 39 Cortlandt St., New York, $1,025; Donegan & Swift, 6 Murray St., New York, $1,088; Brooklyn Iron Works, 25-29 Bay St., Brooklyn, $1,835 and $700.

MAY'S LANDING, N. J.—The question of works is being considered.

WALLINGTON, N. J.—Bids are asked until April 22 for furnishing and erecting a 20-HP. gasoline engine and a triplex pump of 300 gallons of water a minute. Wise & Watson, Engrs., 34 Bloomfield Ave., Passaic, N. J.; Wilmot Stickle, Secy.

ALTOONA, PA.—We are informed that the contract for 5 24-in. valves, 6 12-in., 29 8-in. and 12 6-in., has been let to the Rensselaer Mfg. Co.; that for 8,400 ft. of 6 to 24-in. pipe and specials to the U. S. Cast-Iron Pipe & Foundry Co., and that for 36 meters to the Pittsburg Meter Co. S. A. Gailey, Water Supt.; Harvey Linton, Cy. Engr.

AVONDALE, PA.—This place will soon have works. E. P. Passmore and Dr. Paiste, of Avondale, and W. L. Gilbert, of Oxford, Pa., are interested.

DU BOIS, PA.—The council has voted to ask for bids for constructing an extension to the works, to include the Anderson Creek project. Address Water Commissioner Smith and Burgess Vasbinder.

FREEMANSBURG, PA.—J. D. Brodhead, of the South Bethlehem (Pa.) Gas & Water Co., has submitted a proposition to lay mains to this place.

GLASSPORT, PA.—The Port River Water Co. has been incorporated by Gilbert F. Myer, R. T. Carothers and Wm. Weldon.

HAWLEY, PA.—The Pike Water Co. has been incorporated with a capital of $1,200.

OAK GROVE, PA.—Plans have been completed for three large reservoirs for the Philadelphia & Reading Coal & Iron Co., and work will probably soon be begun.

OAKMONT, PA.—The Suburban Water Co. has increased its capital to $100,000, and it is reported will make some improvements to the works.

READING, PA.—Bids are asked until April 16 for furnishing and laying cast-iron water pipe, specials, gates, hydrants, corporation cocks, etc. F. P. Helle, Pres. Bd. Water Comrs; J. H. Thamm, Secy.

PHILADELPHIA, PA.—Bids are asked until May 1 for furnishing and erecting three 20,000,000-gallon pumping engines and boilers, and an electric traveling crane for the Frankford pumping station at Lardner's Point. Wm. C. Haddock, Dir. Dept. Pub. Wks.

PHILADELPHIA, PA.—Director Haddock will soon ask for bids for constructing a 27,000,000-gallon filtration plant and a new 60,000,000-gallon reservoir for West Philadelphia. Bids will also be asked for a conduit to carrying filtered water from the filter beds, to be built at Torresdale to the pumping station at Lardner's Point.

UNIONTOWN, PA.—The Uniontown Water Co.'s property has ben sold to Eastern parties. The capital will be increased from $50,000 to $200,000, and the mountain reservoir, etc., will be enlarged. W. H. Playford, Pres.

WEST CHESTER, PA.—The Pennsylvania R. R. Co. has been asked to erect water tanks in the town. Thos. Gucker, Supt.

WASHINGTON, PA.—E. F. Acheson, W. C. Baldwin, and W. S. Campbell have purchased the works of the Citizens' Water Co. It is said that a main will be laid from Cheat River down the Monongahela to Fredericktown, where the water will be pumped to a distributing reservoir at Scenery Hill, and then sent to Washington by gravity. New filters will also be built.

WESTON, W. VA.—J. S. Mitchell, Supt. Weston Electric Light, Power & Water Co., writes us that the contract for sinking artesian wells for a water supply has been let. Thos. Pettigrew, Engr.

COLUMBIA, S. C.—F. S. Earle, Mayor, writes us that before the city can begin work it will have to have the validity of the constitutional amendment under which it is intended to issue the bonds tested by the supreme court. It is hoped to have a decision from the court by June or July, after which contracts for the work will be let. Pop., 25,000.

DURHAM, N. C.—Reports state that the Durham Water Co. will extend its works. J. C. Mitchie, Supt.

DUBLIN, GA.—T. D. Smith, Clk., writes us that it is proposed to sink artesian wells for an increased water supply. Pop., 3,000.

HOGANSVILLE, GA.—The council has let a contract for the construction of works and an electric plant to a company which proposes to build a $20,000 knitting mill.

LUMPKIN, GA.—I. B. Richardson, Mayor, writes us that this place has voted to issue bonds for works.

ST. AUGUSTINE, FLA.—Reports state that it is proposed to improve the works at once.

GADSDEN, TENN.—The city has sold $30,000 6% bonds for works and a school building.

ROCKWOOD, TENN.—Bids were asked until April 10 for contsructing works, according to reports. Geo. E. Sylvester, Engr.

WINCHESTER, TENN.—Walter G. Kirkpatrick, of Jackson, Miss., has been engaged to make surveys for works and an electric plant. A dam will be built over Elk River and power developed by electricity for lighting and operating the works. The source of water supply will probably be a large spring.

BEREA, O.—This place has voted to issue $10,000 of bonds for extending the works and $2,000 for the electric plant.

WOODSFIELD, O.—The village ratified a contract made by the council with Jas. Kinney, Jr., of Bellaire, O., for the construction of works under a 20-year franchise. There will be required a standpipe 30 × 50 ft., two 1,000,-000-gallon compound pumping engines, two 60-in. × 16-ft. boilers about a mile of 10-in. pipe, three-quarters of a mile of 8-in., 1½ miles of 6-in. and a mile of 4-in. pipe, 30 hydrants and 30 gate valves.

CARTHAGE, IND.—The council has granted a 10-year franchise for works and an electric plant, according to reports.

PETERSBURG, IND.—We are informed that the American Light & Water Co., 431 Lemcke Bldg., Indianapolis, which recently secured the franchise for works for this place, is in the market for compound duplex pumps, feed-water heater, feed-water pumps, stand-pipe, cast-iron pipe, specials, lead, jute, hydrants, valves, etc., for the Petersburg works. The Petersburg Water Co. has been incorporated by S. V. Perrott, of Indianapolis, and others, with a capital of $10,000.

SELLERSBURG, IND.—Reports state that P. Sellers wishes to correspond with contractors with regard to building works.

SWEETSERS, IND.—It is stated that this place will soon build works, electric plant, streets, etc.

TERRE HAUTE, IND.—The mayor has been directed to appoint a committee to consider the advisability of building city works.

ANN ARBOR, MICH.—Prof. M. E. Cooley has been engaged as the city's arbitrator to determine the value of the works, which the city proposes to buy.

HANCOCK, MICH.—The question of issuing about $30,-000 in bonds for works, sewers, etc., is being considered, according to reports.

NEGAUNEE, MICH.—Reports state that this place and Ishpeming will have to secure other sources than the present ones for their water supplies.

WEST BAY CITY, MICH.—City Engineer Bloomshield has recommended meters and the extension of the water mains.

ALTON, ILL.—G. T. Davis, Chn. Water Com., is securing data regarding the municipal ownership of works. A. W. Young, Mayor; Patrick Ward, Cy. Clk.

CHICAGO, ILL.—Bids are asked until April 13 for erecting a steel water tower and tank of 180,000 gallons capacity at the Washington Heights pumping station. L. E. McGann, Comr. Pub. Wks.

ASHLAND, WIS.—The question of changing the source of supply of the works owned by the Ashland Water Co. is being considered. E. P. Wheeler, of Beloit, Wis., and Capt. Elbert Wheeler, of Boston, are interested.

BELOIT, WIS.—The council has voted not to purchase the works for $255,000.

ALBIA, IA.—The question of granting a franchise for works is being considered.

ARMSTRONG, IA.—Bids are asked until May 1 for furnishing and laying 2,580 ft. of 4-in. water pipe, gate boxes, hydrants, etc. A. W. Calvin, Clk.

CUMPERLAND, IA.—This place has voted to issue $6,-000 in bonds for works.

DAVENPORT, IA.—The Davenport Water Co. proposes to increase its filtration system and Col. J. P. Donahue, of the company, has been studying methods.

DES MOINES, IA.—The question of extending the mains of the Des Moines Water-Works Co. to the army post is being considered; estimated cost, $25,000. J. G. Rounds, Treas.; Geo. E. Bird, Attorney, Portland, Me.

GLIDDEN, IA.—This place has voted to build works. J. W. Orchard, Recdr.

GRINNELL, IA.—J. C. Goodrich, Supt., writes us that the city wishes to let contract for another deep well, to be 2,000 ft. deep and 6 ins. in diameter.

GRAETTINGER, IA.—Bids are asked until 6 p. m. April 15 for contsructing an 8-ft. well to furnish 100 gallons of water a minute for the new works. Pop., 500. T. R. Stidman, Clk.

IMOGENE, IA.—Reports state that this place will build works.

IOWA CITY, IA.—Reports state that a new engine will be installed at the works.

KEOKUK, IA.—The council has voted to create a sinking fund for the purchase of the works.

LEON, IA.—This place has voted to issue $4,000 in bonds for works.

OTTUMWA, IA.—An election will be held May 6 to vote on the question of awarding the contract for building works to the Fruin-Bambrick Construction Co., 922 Olive St., St. Louis, Mo., at about $400,000.

RICEVILLE, IA.—This place has voted to issue bonds for works.

TABOR, IA.—This place has voted on the question of issuing bonds for works and an electric plant.

BIRD ISLAND, MINN.—An election will be held this spring to vote on the question of works.

VALLEY SPRINGS, MINN.—This place is reported as considering the question of works.

OSAWATOMIE, KAN.—Bids are asked until May 1 for constructing works, as described in our advertising columns. Burns & McDonnell, Engrs., 409 Postal Telegraph Bldg., Kansas City, Mo.; W. C. Tator, Cy. Clk.

KEARNEY, NEB.—This place has voted to own the works. W. H. Roe, Mayor; G. E. Ford, Clk.

EAST GRAND FORKS, N. DAK.—This place has voted to issue $15,000 in bonds for an electric plant and waterworks. Hugh Thompson and J. R. Johnson are interested.

LARAMIE, WYO.—The Rocky Mountain Power & Irrigation Co. has been incorporated with a capital of $800,000 by the Van Horne Syndicate, Sir Wm. Van Horne, Pres., Montreal, Que., to build an irrigation canal from the Laramie River, near here.

LARAMIE, WYO.—E. Whiting, Cy. Engr., writes us that the question of improvements to the works is being considered.

HELENA, MONT.—The council has purchased the rights to the waters of Beaver Creek, 23 miles southeast of here, to be used for a municipal water supply. It is stated that work on the new plant, to cost about $600,000, will be commenced at once.

HANNIBAL, MO.—This place will vote April 23 on the question of issuing $135,000 of 4% bonds for the purchase of the works of the Hannibal Water Co. or for erecting a new plant.

WEBSTER GROVES, MO.—S. A. Moody, Cy. Clk., writes us that this place has defeated the proposition to issue bonds for works, to be built by J. B. Quigley.

LULING, TEX.—John Orchard, Mgr. Luling Water-Works Co., writes us that the Alamo Iron Works, of San Antonio, Tex., has been awarded the contract at $3,895 for building a 20 × 80 ft. steel standpipe.

SAN ANTONIO, TEX.—The San Antonio Water-Works Co. has asked for an extension to its franchise, which soon expires, as it is intended to spend about $100,000 on improvements. G. W. Brackenridge, Pres.

WEATHERFORD, TEX.—E. Putnam, Mayor, writes us that this place has voted to issue $45,000 in bonds for works.

EATON, COLO.—F. N. Thomas, Mayor, writes us that this place voted April 2 to issue $20,000 in bonds for works and $2,000 for an electric plant, bids for which will be wanted in about 50 days.

FORT COLLINS, COLO.—F. R. Baker, Mayor, writes us that this place was to vote April 2 on the question of building a 16-in. cast-iron main for a gravity supply. Pop., 3,200. Wm. Rist, Engr.

MONTROSE, COLO.—Bids were asked by F. D. Catlin, Secy. Cimarron & Uncompabgre Valley Canal & Reservoir Co., until April 8 for constructing 5 miles of irrigation ditch.

WHITEOAKS, N. MEX.—The Carizozo Water Co. has been incorporated with a capital of $25,000 by Melvin G. Paden and F. J. Saeger.

BALLARD, WASH.—The question of improving the works is reported as being considered.

PORT TOWNSEND, WASH.—The Spring Valley Water Co. is reported as making surveys for extending its works, to cost about $100,000. Address General Manager Tibbals.

BAKER CITY, ORE.—This place will soon vote on the question of issuing $45,200 in bonds for new mains, $30,000 for a new reservoir and $24,800 for an electric plant. Fife & Conlan, of Spokane, Wash., who were awarded the contract last year for building the works, to cost $150,000, have begun work.

ELSINORE, CAL.—B. R. Davisson, of Monrovia, Cal., has been awarded the contract at $35,000 for laying 26 miles of 30-in. concrete pipe in Riverside county.

LAKEVIEW, CAL.—The Colony Heights Irrigation Co. has been incorporated with a capital of $25,000 by C. B. Hill, of Chicago, and W. M. Peck, of Riverside, Cal.

POMONA, CAL.—The North Palomares Water Co. has been incorporated with a capital of $68,390 by P. J. Dreher and S. N. Androus.

REDWOOD, CAL.—Bids are asked until 8 p. m. April 15 for furnishing the materials and for trenching and laying water mains. D. R. Stafford, Clk.

SAN DIEGO, CAL.—The council has approved contracts with the water companies for the city to acquire the plants and an election to vote on the question will be held on April 20.

STOCKTON, CAL.—Reports state that the canal system of the Stanislaus & San Joaquin Canal Co. will soon be extended six miles, in addition to the works just completed. Alvinza Haywards, C. D. Lane and C. T. Tullock are interested.

BOISE, IDAHO.—Dr. O. A. King, of Lake Geneva, Wis., and Chicago, Ill., is reported as interested in a projected irrigation canal near Boise City.

CORNWALL, ONT.—Louis Chevalier, of Montreal, Que., is reported to have been awarded the contract at about $9,000 for a pumping station for the works, and the Caledonia Iron Works, of Montreal, that for the machinery.

MORRISBURG, ONT.—The question of the purchase of the works by the city is reported as being considered.

OSHAWA, ONT.—Thos. Morris, Clk., writes us that the question of works and sewers is being considered. It is undecided whether to pump from the lake or to go nine miles distant for water from springs and secure it by gravitation. The riparian rights make it difficult to adopt the latter plan. R. E. Speakman and Wm. T. Jennings, Consult. Engrs, Molsons Bank Bldg., Toronto, Ont.

ROSSLAND, B. C., CAN.—It is stated that the Le Roi, War Eagle and Centre Star mine owners propose to build a pipe line from a point near Sheep Lake, to cost $150,000, and to build two large smelters.

HANOVER, ONT.—Duncan Campbell, Clk., writes us that bids will be opened in June or July for constructing works, to consist of about 20,250 ft. of 4 to 10-in. cast-iron pipe, 36 6 and 5-in. hydrants, 15 gate valves, a duplex pump of 750 gallons of water a minute, etc. R. E. Speakman, Engr., Toronto.

WINDSOR, ONT.—The Canada Water & Sewage Purifying Co., Ltd., has been incorporated with a capital of $100,000.

SEWERAGE.

BOSTON, MASS.—Bids are asked by the Metropolitan Water and Sewerage Board, 1 Ashburton Place, until May 13 for constructing section 49, and culverts and embankments for sections 48 and 49, requiring 2,000 ft. of 135 × 150-in. sewer, with 325 ft. of 48 and 30-in. culverts, and 180,000 cu. yds. of filling, as stated in our advertising columns. W. M. Brown, Ch. Engr.

DEDHAM, MASS.—We are informed that the following contracts were let March 25 by E. Worthington, Ch. Engr., for constructing about 11½ miles of pipe and 2,800 ft. of brick sewers: Frank A. Gammino, 135 Spruce St., Providence, R. I., section A, $11,201; section D, $6,525. Newman Construction Co., Industrial Trust Bldg., Providence, R. I., section B, $29,350; section C, $21,620; section E, $10,218. Total for entire work, $78,914. About 60 bids were received.

NEWTON, MASS.—The board of aldermen is said to have decided to issue $20,000 in bonds for new sewers.

PEABODY, MASS.—This city will ask for permission to issue $300,000 in bonds for sewerage improvements in connection with the town of Salem, which will ask for permission to issue $400,000 in bonds.

WESTFIELD, MASS.—A special committee has been appointed to look into the matter of an appropriation of $60,000 in bonds for constructing sewers in the southern part of the town.

BINGHAMTON, N. Y.—The legislature has passed a bill appropriating $35,000 for constructing a sewer at the State Hospital here.

NEW YORK, N. Y.—Bids are asked by the department of sewers, 21 Park Row, until April 17 for constructing sewers in Freeman, Home and Longfellow Sts., Borough of The Bronx, and in Broadway, Borough of Queens; also for a disposal plant in connection with the last.

SANDY HILL, N. Y.—W. J. Gallagher, Sewer Comr., writes us that plans and specifications will be completed this week and bids will be advertised about April 15 for constructing the proposed system, for which $75,000 in bonds were recently issued. The system will consist of about 65,138 ft. of 6 to 24-in. pipe and 3,630 ft. of 30 and 33-in. brick sewer. John W. Burke, Engr., 451 Broadway, New York; J. P. Monty, Resident Engr.

TROY, N. Y.—We are informed that the council will construct about 3,000 ft. of 30 × 45-in. brick sewer in Ferry St. E. R. Cary, Cy. Engr.

BURLINGTON, N. J.—We are informed that the council has granted a franchise to George Pfeiffer, of Camden, to construct a system consisting of about ten miles of 8 to 20-in. sewers, average cut 8 ft., to cost about $75,000. Work will be started at once. William H. Boardman, Engr., Philadelphia, Pa.

WOODBURY, N. J.—We are informed that William Easby, Jr., of Philadelphia, Pa., has been engaged to prepare plans and supervise the construction of a system for this town, to cost about $55,000.

ALLEGHENY, PA.—This city is said to have sold $50,000 in bonds for sewer improvements. James Brown, Cy. Comptroller.

MOORESTOWN, PA.—This city is said to be considering the question of issuing $30,000 in bonds for constructing a system.

MT. CARMEL, PA.—Press reports state that the council has under consideration the question of issuing bonds for constructing a system.

WASHINGTON, D. C.—Bids are asked by the district commissioners until April 20 for constructing sewers in the district, as stated in our advertising columns.

MONROE, LA.—Press reports state that the Mayor will soon ask for bids for constructing the proposed system, for which $30,000 in bonds were recently voted.

BRISTOL, TENN.—Bids are asked by H. E. Jones until May 1 for paving Main and other streets with brick, and for paving a portion of Main St. with asphalt or brick.

NASHVILLE, TENN.—The board will, it is said, appropriate $45,000 for continuing the construction of the Lick Branch sewer.

DANVILLE, KY.—Local papers state that work will be started in May on the proposed system, to cost about $26,000.

DANVILLE, KY.—Bids will soon be asked for constructing about 4½ miles of sewers and three septic tanks for this city. Alvord & Shields, Engrs., Hartford Block, Chicago, Ill.; Johnson Allen, Supt. Water and Sewers.

DAYTON, O.—The board of city affairs has decided to construct sewers in district No. 4, to cost about $19,780, and in district No. 8, to cost about $5,661.

CHARLEVOIX, MICH.—We are informed that Field & Hinchman, Majestic Bldg., Detroit, have completed plans for about 2,775 ft. of 6 to 15-in. sewer in Main St. G. S. Williams, Associate Engr., Ithaca, N. Y.; J. M. Eaton, Chn. Sewer Com.

SAULT STE. MARIE, ONT.—Willis Chipman, 103 Bay St., Toronto, writes us that he has been engaged to prepare plans for a system for this city, to cost about $120,000. It is intended to construct a portion of the sytsem this year. A vote on the matter will probably be taken in May.

MOUNT PLEASANT, IA.—Reports state that it is proposed to erect a filtration plant at the state hospital.

ST. PAUL, MINN.—The following bids were received March 28 for constructing 4,374 ft. of brick and 6,927 ft. of pipe sewers in Martin St.: Preston & Keigher, $37,995; Newman, Hoey & Johnson, $47,839; McDonald & Kennedy, $42,000; Pat. Doherty, $47,000; P. T. Ryan, $40,647; E. T. Kirkland, $44,500.

MADISON, MO.—This town has decided to issue $11,000 in bonds for constructing a system, according to reports.

HELENA, ARK.—We are informed that the following bids were received April 2 by D. F. Hargraves, Secy., for constructing about 12½ miles of sewers: Jones & Kehoe, Des Moines, Ia., $83,194; R. A. Cummings, Philadelphia, Pa., $78,816; C. J. Wagner & Co., Memphis, Tenn., $72,468; Hanley & Co., Topeka, Kan., $69,042; Shine, Summers & Co., Chicago, Ill., $62,566; Neeley & Smith, Chattanooga, Tenn., $54,787; Irwin Bros., Greenville, O., $53,110; Guild & Co., Chattanooga, Tenn., $51,500.

BROWNWOOD, TEX.—Press reports state that this city is considering the question of constructing a system.

SHERMAN, TEX.—At the election April 2 the people of this city voted to issue $80,000 in bonds for constructing a system.

MERCED, CAL.—H. H. Henderson, Cy. Engr., writes us that this city will construct about 12 miles of 6 to 12-in. pipe sewers, average cut 4 ft. 9 ins., to cost about $28,000.

RIVERSIDE, CAL.—The trustees have ordered a 12-in. sewer constructed in the district south of 14th St.

CAMPBELLTON, N. B.—We are informed that the people of this city will vote this month on the question of issuing $25,000 in bonds for constructing a system. Plans have been prepared by Willis Chipman, 103 Bay St., Toronto, Ont.

WOLFVILLE, N. S.—We are informed that this city has engaged F. W. W. Doane, Cy. Engr. of Halifax, to prepare plans and specifications for a system. Contracts will not be let before next year. George Thomson, Mayor.

GARBAGE DISPOSAL—STREET CLEANING

LOWELL, MASS.—We are informed that the committee appointed to investigate the matter of disposing of the waste and of purchasing a garbage crematory has not yet submitted its report. Dr. Guy Holbrook, Chn. Bd. of Health.

BUFFALO, N. Y.—Richard Forrestal and Jas. Martin, garbage contractors, are preparing to submit a proposition for collecting and disposing of the garbage.

MEDINA, N. Y.—The question of a better method of disposing of the garbage is being considered.

ROME, N. Y.—City Engineer Capron has asked permission to buy a 2-horse street sweeper.

McKEES ROCKS, PA.—It is stated that this place and Esplen may jointly build a garbage disposal plant.

NEWPORT NEWS, VA.—F. C. Lenz, Chn. Com., writes us that bids will probably soon be wanted for erecting and constructing a garbage disposal plant.

NORFOLK, VA.—We are informed that the following bids were received by the Bureau of Yards and Docks, Navy Dept., Washington, March 30, for constructing a crematory: E. Hart, 568 E. Main St., Norfolk, $1,475; Manhattan Supply Co., 160 Duane St., New York, $1,500; Benjamin Boulger, 39 Cortlandt St., New York, $4,000; Dixon Garbage Crematory Co., 1001 Spitzer Bldg., Toledo, O., $4,500, $4,344 alternate.

ROCKFORD, ILL.—C. W. Eliason has submitted the lowest bid at $1,500 for collecting the garbage for the year.

SALT LAKE CITY, UTAH.—The question of erecting the garbage crematory at a cost of about $25,000 is being considered. Address Health Commissioner King. The Domestic Garbage Burner Co. has been incorporated with a capital of $200,000 by H. M. Clay, J. C. E. King and John A. Hunt.

STREETS AND ROADS.

DEXTER, ME.—This town has voted to purchase a new stone crusher.

TOPSHAM, ME.—The council is said to have decided to purchase a stone crusher.

BOSTON, MASS.—Bids are asked by the Massachusetts Highway Commission, 20 Pemberton Square, until April 11 for building about 2,000 ft. of state highway in the town of Hardwick.——Bids are asked by the Metropolitan Park Commission, 14 Beacon St., until April 22 for resurfacing Revue Beach Parkway, requiring 30,000 cu. yds. grading, 60,000 cu. yds. of filling, 17,075 ft. of 6 to 20-in. pipe drain and 75,000 sq. yds. of broken stone surfacing.

EVERETT, MASS.—The board of aldermen have appropriated $25,000 for new brick sidewalks.

HOLYOKE, MASS.—Bids are asked by the board of public works until April 26 for furnishing 50,000 paving bricks, as stated in our advertising columns. Michael F. Walsh, Chn.

LYNN, MASS.—Bids are asked by the board of public works until April 16 for furnishing 100,000 paving bricks for sidewalks. Geo. C. Houghton, Chn. Bd.

WALPOLE, MASS.—The council has decided to spend $5,000 on concrete sidewalks this season.

WARE, MASS.—The council has made the following appropriations for street work this season: $5,500 for highways, $4,500 for paving Main St., and $1,500 for sidewalks.

BRIDGEPORT, CONN.—Bids are asked by the street and sidewalk committee until May 1 for furnishing brick to lay about 6,600 sq. yds. of pavement, as stated in our advertising columns. A. E. Lavery, Cy. Clk.

MERIDEN, CONN.—The council has appropriated $15,000 for paving State St. with asphalt.

COHOES, N. Y.—Bids are asked by the public improvement commission until April 24 for paving portions of 13 streets, as stated in our advertising columns. Wm. J. Elliot, Clk.; Edward Hayes, Engr.

DUNKIRK, N. Y.—Bids are asked until April 30 for constructing about 3,350 cu. yds. excavation, 9,200 sq. ft. of pavement, 7,500 ft. of curb, etc., on Eagle St., as stated in our advertising columns. J. P. Groesch, Cy. Clk.; Jas. P. Morrissey, Cy. Engr.

HUNTINGTON (L. I.), N. Y.—The people of this town have voted against the proposed issue of $84,000 in bonds for constructing 17 miles of macadam roads.——The council has appropriated $6,000 for purchasing a road roller.

TROY, N. Y.—E. R. Cary, Cy. Engr., writes us that the council has decided to construct 3,600 ft. of brick pavement on Oakwood Ave., and 3,000 ft. of block pavement on Ferry St.

ALTOONA, PA.—Harvey Linton, Cy. Engr., writes us that the appropriation for repaving 11th Ave. was not allowed by the council, and it is not likely that the work will be done this year.

GREENSBURG, PA.—Bids are asked until May 6 for paving West Pittsburg St., with brick, for a distance of about 2,523 ft. John S. Bell, Burgess; I. C. Snyder, Clk.

BALTIMORE, MD.—Bids are asked by the board of awards until April 17 for repairing sheet asphalt pavements. B. T. Fendall, Cy. Engr.

WASHINGTON, D. C.—Bids are asked by the district commissioners until April 20 for paving the roadway of the Bladensburg road with asphalt and granite block, as stated in our advertising columns.

NEW MARTINSVILLE, W. VA.—Reports state that this town has voted to issue bonds for street improvements.

CHARLESTON, S. C.—We are informed that this city will construct about 6,000 sq. yds. of macadam pavement by day labor, and drains to cost about $5,000. J. H. Dingle, Cy. Surv.

COLUMBUS, GA.—Bids are asked by the committee on streets and sewers until April 15 for constructing brick sidewalks on First Ave. and Tenth St. M. M. Moore, Clk.

BESSEMER, ALA.—Mayor Huey writes us that bids will be received about May 1 for about 1,500 ft. of granite curbing.

CINCINNATI, O.—Projected work for this season includes asphalt paving on Harrison Ave. for a distance of 7,200 ft., and granite paving on Beekman St. The extension of East Court St. with a bank and retaining walls for a distance of 1,600 ft. will cost $115,000, including property. As the street will rise 150 ft. in this distance the roadway paving will be of boulders, with artificial stone sidewalks.

CINCINNATI, O.—Bids are asked by the board of public improvements until April 15 for constructing and repairing all brick sidewalks in the eastern and western sidewalk districts. Robert Alison, Pres. Bd.; Geo. F. Holmes, Clk.

ST. MARY'S, O.—Bids are asked until May 4 for constructing about 7,000 sq. yds. of brick pavement in this town. J. H. Rowe, Jr., Village Clk.

SPRINGFIELD, O.—Bids are asked until May 3 for constructing about 16,000 sq. yds. of brick or block pavement on Clifton St., to cost about $32,400. Wm. Sharon, Cy. Engr.; R. N. Lauts, Cy. Clk.

TOLEDO, O.—Bids are asked until April 15 for improving Locust and George Sts. J. C. Cornell, Cy. Clk.

YOUNGSTOWN, O.—Bids are asked by the city commissioners until April 20 for laying sidewalks and crosswalks. C. E. Cross, Clk.

ELGIN, ILL.—The contract for paving Chicago St. has been let to A. E. Rutledge & Co., of Rockford, at $8,390. Smith, Ross & Brown, of Chicago, submitted the only other bid at $8,600.

INDIANAPOLIS, IND.—The board of public works has passed resolutions providing for the paving and improving of a number of streets.

WABASH, IND.—Bids are asked by the city clerk until April 22 for the improvement of Columbus and Bent Sts. Fremont McLees, Cy. Clk.

PEORIA, ILL.—The board of public improvements is considering the following appropriations: $8,810 for paving Bradley Ave. with brick, $4,589 for paving University St. with brick, and $7,721 for paving Corper St. and Sherman Ave. with asphalt.

BELOIT, WIS.—The council is said to be considering the question of paving Broad St. with brick, to cost about $20,000.

DES MOINES, IA.—The council has decided to pave West 12th St. with macadam and Center St. with brick.

MINNEAPOLIS, MINN.—The council has ordered the following paving for the coming season: Sixth St., to cost about $13,109; Eighth St., to cost about $4,771; Washington Ave., to cost about $22,046; Seventh St., to cost about $[illegible],20, and Tenth St., to cost about $35,567.

ST. PAUL, MINN.—The board of aldermen has ordered the following paving: Decatur St., with brick, to cost about $11,439; Summit Ave., with asphalt, to cost about $11,719; Bradley St., with brick, to cost about $21,055; Robert St., with brick, to cost about $23,741, and several other streets with brick, to cost about $29,216.

FT. BENTON, MONT.—Bids are asked until April 15 for grading Shonkin Hill and Big Sag Hill. E. F. Sayre, Clk. Bd. County Comrs.

ST. LOUIS, MO.—The following lowest bids have been received by the board of public improvements for paving with granite: 15th St., J. C. Finck, Jr., $17,732; Jefferson Ave., Heman Construction Co., $13,961. For paving with brick—17th St., J. C. Finck, Jr., $4,493; Lucas Ave., H. Ruecking & Co., $3,274; Washington Ave., Skrainka Construction Co., $19,399; Lucas Ave., Alex Niedringhaus, $9,878; 22d St., J. C. Finck, Jr., $12,016; Channing Ave., J. C. Finck, Jr., $8,094; Chippewa St., John A. Lohrum, $7,323; Easton Ave., from Prairie Ave. to Goode Ave., Skrainka Construction Co., $30,220; from Goode Ave. to Taylor Ave., Fruin-Bambrick Construction Co., $22,710; from Taylor Ave. to Marcus Ave., J. C. Finck, Jr., $16,105, and Park Ave., from 11th St. to St. Ange Ave., J. C. Finck, Jr., $6,925.

SEATTLE, WASH.—The board of public works has let the contract for paving and improving the streets south of the Yesler Way to F. McLellan at $107,102. The following bids were also received by the board for the work: T. Ryan & Co., $107,190; Rydstrom & Goerich, $115,820, and Stenat & Goetz, $115,920.——The council has decided to pave Pine St., Third and Fifth Aves.

OAKLAND, CAL.—Bids are asked until April 18 for macadamizing Newton Ave. J. W. Tompkins, Cy. Clk.

MANUFACTURING PLANTS

BUFFALO, N. Y.—The Hollywood Paint Co. has been incorporated with $40,000 capital stock. The company will locate its plant at Black Rock, and will begin work in the near future. Seneca Jones, Hamilton, Ont.; Andrew B. Harrington, Alexander, and Frank H. Kinnins, Buffalo, are directors.

NIAGARA FALLS, N. Y.—Local papers state that the Norton Emery Wheel Co., of Worcester, Mass., has awarded the contract for erecting its new plant in this city to E. J. Cross, Worcester. Work will be started at once. ——Bids have been received by the Natural Food Co. for erecting a large wheat-cleaning plant and warehouse. The work will cost about $45,000.

NIAGARA FALLS, N. Y.—Local papers state that the Cataract Chemical Co., recently incorporated with $100,000 capital stock, will erect a plant in this place for the manufacture of nitric acid by a new process. Chas S. Bradley, Pres.

SUMMIT, N. J.—It is said that William DeForest, of this place, will build a mill here for the manufacture of umbrellas. About 300 hands will be employed.

BUTLER, PA.—Reports state that the United States Steel Co. is looking for a site for a steel plant for the manufacture of Juniper steel at this place. The citizens of Butler will be asked to subscribe $100,000 toward the project.

MONESSEN, PA.—The Crucible Steel Co. has secured a site in this town upon which will be erected a steel plant, which will employ 5,000 men.

PUNXSUTAWNEY, PA.—The Laflin & Rand Powder Co., New York, has purchased a tract of land near this place and will shortly commence the erection of extensive powder works thereon. The works will cost about $200,000 and will employ 100 men.

READING, PA.—Plans are being prepared by Wm. A. Fink, Arch., for a 3-story brick factory, to be erected at 125 South Fifth Ave., by W. W. Essick, manufacturer of optical goods.

SPRING CITY, PA.—The Penn Window Glass Works, owned by Wm. P. Snyder, recently destroyed by fire, will be rebuilt on a larger scale, according to reports.

WILKESBARRE, PA.—Local papers state that a plant will be located in this city for the manufacture of engines and pumps, which will employ about 100 men.

BIG STONE GAP, VA.—The American Leather Co. will build a large extract plant here to be operated in connection with the tannery recently purchased for the Virginia Tanning & Extract Co.

DAMASCUS, VA.—The Damascus Extract Bark Co. has completed plans for a large tonic extract plant at this place, the southern terminus of the Virginia & Carolina Ry. The plant will cost about $160,000, and will employ 150 hands.

RALEIGH, N. C.—The Farmers' National Fertilizer Co. has been chartered with a capital stock of $100,000, to manufacture chemicals, fertilizers and other products. A plant will be erected at an early date. John S. Cunningham and John C. Drewry are interested.

WINSTON-SALEM, N. C.—A movement is reported to be on foot to build a cotton factory here on the instalment and co-operative plan, costing about $100,000. Options are already secured on certain property north of Winston to carry out the project. D. A. Tompkins, Charlotte, is interested.

HUNTSVILLE, ALA.—The contract for building a cotton mill for the Rowe Mfg. Co. has been let to Geo. B. Hinman, Atlanta, Ga., at $35,000.

CHATTANOOGA, TENN.—The Chattanooga Bottle Glass Co. is being organized to build a glass factory in this city. It is said that contracts have already been awarded for the company's plant, which will have a capacity of 250 gross of bottles per day. The company will have a capital stock of $30,000. Jacob Bindeschier, Gen. Mgr., Findlay, O.

HUNTSVILLE, TENN.—It is stated that the building material for the Madison Spinning Mill have been received and work will be started at once by the Fulcher Construction Co., of Nashville. The investment will represent an expenditure of $100,000.——The American Cotton Co. has let a contract for erecting a round-bale cotton compress at Scottsboro.

CHESTER, O.—Reports state that the citizens of this place have subscribed $25,000 towards the $40,000 necessary to bring a new glass plant here.

STEUBENVILLE, O.—The board of trade has purchased land adjoining the works of the Labelle Iron Works, and it is stated that the Labelle Co. will expend $1,500,000 in new iron mills, steel plants, etc., and will remove all its mills from Wheeling to this place. About 1,500 men will be employed in the new works.

YOUNGSTOWN, O.—Contracts amounting to $100,000 have been awarded by the Youngstown Iron Sheet & Tube Co. for its plant. The buildings will be erected by the American Bridge Co., and will be completed within 60 days.

OTTAWA, ILL.—Financial negotiations have been completed for the proposed glass plant to be built in this place, which will be capitalized at $1,000,000. James and Joseph D. Oliver, of this city, are largely interested.

GRAND RAPIDS, WIS.—The Grand Rapids Milling Co. has been organized by J. D. Witter, I. P. Witter and John Horton, who recently purchased the Jackson Milling property. The new company is capitalized at $20,000, and will build a mill south of the present site, using the old machinery.

MILWAUKEE, WIS.—Plans have been prepared by H. J. Esser, Arch., for two large factory buildings to be erected by Suelflohn & Seefeld, wagon stock manufacturers. The buildings will be erected at 27th St. and St. Paul Ave., and will cost $25,000. It is expected to begin work this month and have the buildings completed by June.

MENOMINEE, MINN.—Plans have been drawn up by C. B. Pride, Arch., Appleton, for a new sulphite mill to be built by the Menominee & Marinette Paper Co. in this place. Three buildings will be erected at a cost of about $80,000. Work will commence at once.

MERTENS, TEX.—The farmers of this vicinity have organized the Mertens Co-operative Gin & Oil Mill Co., and have applied for a charter, capitalized at $40,000. A site will be selected at once and work begun. The contract for machinery has been let.

DENVER, COLO.—Plans for the building for W. A. Hover & Co., druggists, have been completed. The building will be 60 x 125 ft., four stories high, and will cost $70,000. Robt. S. Roeschlaub, Arch.

SEATTLE, WASH.—Reports state that a company will be organized in British Columbia for the purpose of building a cement works near the boundary line of this state. It is said that $30,000 has already been spent on preliminary work, and that the plant will be built and ready for operation by summer. The new works will manufacture Portland cement, lime, and polished marble, and plaster of Paris. The enterprise is backed by English capital.

SAN JOSE, CAL.—A company has been formed with $100,000 capital stock to build automobiles after the patent of Chas. E. Christman, of Los Gatos, where the plant will be located.

KALSO, B. C.—Consular reports state that this town has offered a bonus of $50,000, and exemption from taxation for 10 years, to any person or corporation that will erect a smelter in this place. It is reported that a company has already been organized to build the smelter, and that the construction must be started before Oct. 1. Consul Dudley, of Vancouver, will furnish further information.

MISCELLANEOUS CONTRACTS.

SINKING COAL SHAFT.—Alderson, Ind. Ter.—Bids are asked by the McAlester Coal Co. for sinking a 124-in. x 22-ft. coal shaft 500 ft. deep.

REMOVING WRECK.—Norfolk, Va.—Bids are asked by the U. S. Engineer, 166 Granby St., until April 22 for removing the wreck of dredge, sunk in Chesapeake Bay.

STEEL STACKS.—Washington, D. C.—Bids are asked until April 20 for furnishing steel stacks in the library of the U. S. Geological Survey. Charles D. Walcott, Dir.

CEMENT.—Cincinnati, O.—Bids are asked until May 8 for furnishing 5,000 barrels of Portland or natural cement at dam No. 2, Ohio River. Maj. W. H. Bixby, U. S. Engr.

LEVEE BONDS.—Shreveport, La.—On April 10 the board of commissioners of the Caddo Levee District will sell $100,000 in bonds for improvements. T. F. Bell, Pres.

LOCKS.—Morgantown, Pa.—The contract for constructing four locks in the Monongahela River here is said to have been let to Baker & Judson, of Gloversville, N. Y., at $487,000.

LOCK AND DAM.—Cincinnati, O.—Bids are asked until May 9 for building lock and dam No. 9 in the Kentucky River, as stated in our advertising columns. Capt. H. F. Hodges, U. S. Engr.

RIPRAP.—Boston, Mass.—Bids are asked until May 6 for the construction of a rubble stone riprap on Long Beach, Plymouth Harbor, Mass., as stated in our advertising columns. Col. Charles R. Suter, U. S. Engr.

REVETMENT.—Detroit, Mich.—Bids are asked until May 6 for building a pile and timber revetment for ship canals across Keweenaw Point, Mich., as stated in our advertising columns. Capt. D. D. Gaillard, Engr.

FURNISHING ROCK.—Mobile, Ala.—Bids are asked until May 3 for furnishing rock in place at Pointe aux Herbes and Pass Manchac light stations, La., as stated in our advertising columns. Lieut.-Col. A. N. Damrell, U. S. Engr.

WOODEN PIER.—New York, N. Y.—Bids are asked by the department of docks, Pier A, N. R., until April 19, for building a new wooden pier at the foot of West 131st St., N. R., and also for furnishing a quantity of screw-bolts, dock-spikes, washers, etc.

LIGHT-HOUSE TENDER.—Washington, D. C.—Bids are asked by the light-house board until April 30 for constructing the light-house tender "Sumac" and delivering same at Chicago, Ill., or St. Joseph, Mich. Rear Admiral F. J. Higginson, U. S. N., Chn. Bd.

DRY DOCK.—New York, N. Y.—A company in which Edward E. Cragin is interested, has applied to the Treasury Department for permission to build a dry-dock 1,050 ft. long, capable of being divided into two docks, one 600 ft. long, and the other 450 ft., between Ellis and Liberty Islands, requiring about 2,700 ft. of water front.

REMOVING LEDGE.—Portmouth, N. H.—The following bids were received March 27 by Capt. Harry Taylor, U. S. Engr., for removing ledge in Cape Porpoise Harbor, Me.: J. J. Fitzpatrick, Plattsburg, N. Y., $4,218; Charles W. Johnston, Lewes, Del., $4,400; H. Herbert Sturgis, South Standish, Me., $4,718; Frank Pidgeon, Saugerties, N. Y., $5,449; Dunbar & Sullivan, Rockland, Me., $10,999.

STEEL LOCK GATES.—Louisville, Ky.—We are informed that the following bids were received April 2 by Capt. W. L. Sibert, U. S. Engr., for furnishing three steel lock gates, (1) being for pair of gates for lock No. 1, Green River, Ky., (2) for lock No. 4, Green River, (3) for lock No. 1, Barren River, Ky., (4) total bid: Charles Hegewald Co., New Albany, Ind., (1) $3,044, (2) $3,036, (3) $2,820, (4) $8,900; John P. McGuire, Cleveland, O., (1) $3,000, (2) $3,000, (3) $2,800, (4) $8,800.

U. S. TROPICAL POSSESSIONS & CUBA

SUGAR PLANTATION.—Cuba.—Reports state that the Francisco Sugar Co., owning about 17,000 acres of land near Guayabal, Southern Cuba, proposes to spend about $800,000 in making improvements, building mills, railway, etc., on its plantation. A few contracts are already said to have been let to the Pennsylvania Steel Co., Steelton, Pa., for 1,500 tons of 60-lb. rails; to the Baldwin Locomotive Works, Philadelphia, for three locomotives; to Melly & Co., Philadelphia, for 60 freight cars; to Milliken Bros., 11 Broadway, New York, for about 1,200 tons of structural material; to the Whitney Iron Works, New Orleans, La., for erecting three roller mills, and to the American Machine Tool Co., of Boston, Mass., for the centrifugal pumps. W. J. McCahan, Pres., Philadelphia, Pa.; Manel Rionda, Vice-Pres., 112 Wall St., New York.

HARBOR WORK.—Manila, P. I.—Bids are asked until Aug. 1 for constructing a harbor, as described in our advertising columns. Capt. John Biddle, U. S. Engr., Manila.

DREDGING.—Pearl Harbor, H. I.—It is reported that the U. S. government has awarded the contract for dredging in Pearl Harbor to Clark & Henry, of San Francisco, Cal., at $96,000.

SCHOOL HOUSES, ETC.—Havana, Cuba.—Senor Varona, Secy. of Education, has recommended that $1,100,000 be spent for school buildings, $500,000 to be used during the present year. The Villa lumber yard has been destroyed by fire; loss, about $40,000.

ROADS, ETC.—Hawaii.—The territorial house road committee has reported in favor of appropriating $25,000 for building county roads.——The Hawaiian Automobile Co., Ltd., L. T. Grant, Mgr., has established an automobile service for the islands.——Reports state that Attorney-General Dole has been directed to bring suit to annul the franchise of the Hawaiian Tramway Co., of Honolulu, for alleged nonfulfillment of its franchise.

FOREIGN CONTRACTS AND EXPORT NEWS.

POLICE STATION.—Manchester, Eng.—Plans are asked until June 24 for a new fire and police station to cost about $425,000; first prize, $1,500. W. H. Talbot, Town Clk.

SUGAR REFINERY.—Turkey.—It is stated that Reouf Pasha, owner of a sugar factory at Adrianople, proposes to build a refinery at Pasha Baghtche, on the Bosphorous, Turkey.

ELECTRIC RAILWAY.—Gothenburg, Sweden.—Bids were asked until April 10 for furnishing rails, switches, electric cables, etc., for the proposed electric railways in Gothenburg.

BRIDGES.—Alexandria, Egypt.—Bids are asked by the Inspector of Irrigation, 3d Circle, Alexandria, until April 16 for constructing two iron and steel bridges over the Mahmudieth Canal.

DYNAMO, ETC.—Middlesbrough, Eng.—Bids are asked until April 30 for a boiler, a 300-K-W. steam dynamo, condensing apparatus, etc., for the electric plant. Robt. Hammond, Consult. Engr., 64 Victoria St., Westminster.

SCREWS AND BOLTS.—Norway.—Bids are asked by the Norwegian State Railways, Christiania, until April 17 for furnishing 43,000 fish-plate screws and 220,000 hook bolts. Bids were wanted until April 7 for cast-iron pipe, valves, etc.

INFIRMARY.—London, Eng.—Holliday & Greenwood, Brixton, London, have been awarded the contract at about $873,885 for extending the St. Giles Infirmary in Brunswick Square. C. Wall, of Chelsea, was the next lowest bidder at about $890,000. E. T. Hall, Arch., 57 Moorgate St., London, E. C.

LATHES, TOOLS, ETC.—Spain.—J. F. Villalta, Puertaferrisa 7 and 9, Barcelona, Spain, writes us that he wants catalogues, price-lists, etc., of machine tools, principally lathes and universal milling machines, directly connected with electrical motor instead of driving cone. Mr. Villalta is also negotiating for the establishment of a repair shop to add to a floating dam, and would like catalogues, pictures, etc., of the necessary machinery. The addresses are also wanted of manufacturers of cordage machinery. In writing to Mr. Villalta send him net and gross weights, cubic measurements and other information. Mr. Villalta makes a specialty of importing American goods.

FACTORIES, MINING, ETC.—Europe.—We are informed that English capitalists propose to build a dock-yard on the Isle of Golodai, St. Petersburg, Russia.——The State Savings Bank Department, of Voghera, Italy, offer 100,000 lire for the establishing of a factory at Voghera to employ 300 hands.——The Creusot Co., now building a factory near Champaign, France, proposes to build near Laroche.——The Rumenische Petroleum Matschaffy, Amsterdam, Holland, capital 1,000,000 florins, proposes to develop lands in Roumania, N. Campina, President, of Buchest, Roumania.——La Minera Catalana, Barcelona, Spain, capital $400,000, proposes to develop mines in Gerona, Spain. The Garraucha Iron Co., Ltd., proposes to develop mines near Bevan, Almeria, Spain.——The French Senate has voted $380,000 for a new legation at Vienna and $270,000 for one at Washington, D. C.

PUBLIC WORKS.—England.—The following are the more important public works proposed in England and Scotland during the coming year, according to the London Surveyor and Municipal and County Engineer: Aberdeen, Scotland, Wm. Dyack, Engr.—Electric tramway, 3½ miles long, contracts partly let and other bids will soon be wanted; tunnel, to cost $250,000, bids will soon be asked; new water supply, to cost $5,000. Alfreton, E. Houfton, Surv.—Water supply and sewage disposal beds. Aspatria, J. Goudling, Surv.—Water-works, $175,000. Aston Manor, G. H. Jack, Engr.—Electric plant. Aylesbury, J. H. Bradford, Surv.—Electric plant, $125,000. Barrow-in-Furness, W. H. Fox, Engr.—17½ miles of water pipe and new reservoir, to cost $750,000, and street paving, $500,000. Birkenhead, Chas. Brownridge, Engr.—12 miles of electric road. Birmingham, John Price, Cy. Engr.—6-ft. main sewer, tramways. Buntingford, E. G. Thody, Surv.—Water-works. Burton-on-Trent, G. T. Lyman, Engr.—Sewers and bridge. Buxton, Wm. Hedley, Surv.—Gas works extension, $125,000; water-works, $75,000. Colne, T. H. Hartley, Surv.—Light railway, $400,000; electric plant, $200,000. Coventry, J. E. Swindlehurst. Sewers, $150,000; streets, $500,000. Dawlish, B. Clark, Engr.—Abattoirs, reservoir, etc. Derby, John Ward, Surv.—Electric tramways, 18 miles, to cost $1,600,000; extending water filter tunnels, $250,000; sewers, $1,450,000. Devonport, J. F. Burns, Surv.—Electric tramways, three miles. Dover, H. E. Stillgoe, Engr.—Railway viaduct, $500,000. East and West Molesey, John Stevenson, Surv.—Electric tramways for the London United Tramways Co., Ltd. Gloucester, R. Read, Surv.—Reservoir and 10 miles of mains, electric traction. Gosport, Herbert Frost, Surv.—Mains, sewers, $450,000; electric traction and lighting. Hendon, S. S. Grimley, Engr.—Electric plant, $230,000; tramway. Hexham, R. T. Surtees, Engr.—Workmen's dwellings, electric plant and tramway, water mains. Huddersfield, K. F. Campbell, Engr.—Conversion of steam tramway to electric traction and extensions, 46 miles; power house, to cost $480,000; way and equipment, $1,470,000; cars, $275,000, with most under contract; sewers, $600,000. Hythe, A. S. Butterworth, Surv.—Pumping plant, electric plant. Ilfracombe, O. M. Prouse, Surv.—14 miles of water main, etc., $330,000. Ilkley, T. H. Smith, Surv.—Reservoir and power plant. Keighley, W. H. Hopkinson, Engr.—Electric traction. King's Lynn, H. J. Weaver, Engr.—Water supply, to cost $150,000. Lancaster, John Cook, Engr.—Electric traction. Leicester, E. G. Mawbey, Engr.—Sewers, $1,000,000. Lincoln, R. A. MacBrair, Surv.—Abattoirs, electric tramways. Littleboro, G. H. Wild, Surv.—Tramways, hospital. Lowestoft, G. H. Hamby, Surv.—Electric tramways and lighting. Middleton, W. Welburn, Surv.—Electric tramway, $200,000; sewers, $80,000. Newton-in-Ma-

kerfield, A. Bowes, Surv.—Extending water-works, $100,000. Northampton, W. D. Gibbins, Engr.—Electric tramways. Meaton, J. S. Pickering, Surv.—Sewage disposal plant, $225,000; electric works, $90,000; pumping plant, $60,0000. Okenampton, F. J. Worden, Surv.—Water-works. Portadown, Ire., Wm. Wilson, Surv.—Water-works, $300,000. Pullheli, W. J. Davies, Surv.—Harbor, $300,000. Rockdale, S. S. Platt, Engr.—Electric tramways, $1,200,000; street improvements, $350,000. Sheffield, C. F. Wike, Cy. Surv.—Extending tramway, sewers, etc., $1,500,000, and a bill is to be submitted to Parliament for new street, tramways, bridges, abattoirs, etc., to cost $3,000,000. South-on-Sea, Alfred Fidler, Engr.—Electric plant, $200,000. Stafford, Wm. Blackshaw, Engr.—Cattle market, abattoirs. Stockport, J. Atkinson, Surv.—Water-works, $3,450,000. Stourbridge, F. Woodward, Surv.—Electric plant. Teignmouth, C. Jones, Surv.—Water-works, $300,000. West Bromwick, A. D. Greatorex, Engr.—Electric tramway to be built by the South Staffordshire Lessee Co. and the Birmingham & Midland Tramway Co., cost $500,000. West Ham, J. G. Morley, Engr.—Electric plant and car barns, $1,050,000; tramway, $1,275,000. Yardley, A. W. Smith, Engr.—Sewers, $300,000.

RAILWAYS.—Europe.—We are informed that the Spanish government has granted the following concessions: Railway from Matico to La Esperanza, to Antonio Lopez; railway, from Abono station to Candas, with a branch line to the iron mines of the concessionaires—the Sociedad Minera y Ferocarril de Carreno (the Carreno Mining & Ry. Co.); railway, from San Martin del Rey Aurelio to Lieres, with two branch lines to Santa Ana and Rozadas, to the Sociedad Credito Industrial of Gijon; railway, from the Utrillas mines to Saragossa, to the Sociedad Anonima Minas y Ferrocarriles de Utrillas, Saragossa; economic railway, from Andoain to Ilamado Plazaola, to Francisco Hormaeche, and a railway of one-meter gage to the Compania del Ferrocarril de Las Aranas a Plencia.—The French senate has approved a bill for the construction of a railway from St. Jean d'Angely to Saintes and to Sanjon, 50 kilometers, to cost $2,720,000, without rolling stock. The compagnie des Chemins de per du Sud, 66 rue de la Chausee d'Antin, Paris, has applied for a concession for a narrow-gage line from Toulon to Hyeres, France, to cost $545,000. The Paris & Orleans Ry. will be double tracked between Paris and Bretigny, France. The Paris, Lyons & Mediterranean Ry. proposes to extend its line from Miramas to l'Estagne, 54½ kilometers, to cost $6,600,000.

CANALS, ETC.—France.—We are informed that the following canal work is proposed by the French Minister of Public Works, Paris: New canals—Canal de la Chiers, $8,000,000; canal from the Scheldt to the Meuse, $16,000,000; canal du Nord, $12,000,000; extension of the Ourcq Canal, $7,200,000; deepening of the Loire between Nantes and Angers, $2,800,000; canal between Combieux and Orleans, $1,000,000; canal from Moulins to Sancoins, $3,200,000; canal between the Loire and Rhone, $22,000,000; canal between Marseilles and the Rhone, $18,280,000; canal between the Rhone and Cette, $848,000. Improvements—The Scheldt and Dunkerque Canal, $2,200,000; the Seine, $2,800,000; the Rhone, $1,200,000; Midi canals, $1,400,000; the Goronne, between Castets and Bordeau, $600,000. Port works—Dunkerque, $5,200,000; Dieppe, $1,164,000; Le Havre, $1,200,000; Rouen, $2,300,000; St. Nazaire, $200,000; Nantes, $2,600,000; Bordeau, $200,000; Bayonne, $400,000; Cette, $572,000; Marseilles, $6,800,000. All these works, several of which are at present under study, are to be completed within 16 years. A syndicate, composed of bankers and capitalists of Venice and Milan, has been formed in Venice with a capital of 4,000,000 lires under the title of the "Societa della Navigatione fluviale fra Venizia e Milano," for the exploitation of a canal to connect the Mailand with the Adriatic. It will start from the Grand Laguna of Venice and will join the Mailand by the aid of the Giudecca Canal and further on in utilizing the Loreo and Bianca canals with the Po.

CONTRACT PRICES.

LEVEE WORK.—Memphis, Tenn.—The following contracts for work on the Yazoo Mississippi Delta Levee have been let: Secs. 1 and 2, 128,000 cu. yds., M. J. Roach, 12 cts. a cu. yd.; Sec. 3, 53,000 yds., Thompson & Powell, 9.95 cts.; Sec. 4, 47,000 yds., Thompson & Powell, 10 cts.; Sec. 5, 72,000 yds., Martin Jennings, 21 cts.; Secs. 6 and 7, 121,000 yds., Straub & Cheshire, 12.20 cts.; Secs. 13 to 29, 57,500 yds., J. B. Lewis, 22.40 cts.; Secs. 62, 64 and 65, 44,000 yds., Martin Jennings, 27.90 cts.; Sec. 76, 28,000 yds., Lowrance Bros., 16 cts.; Secs. 77, 78, 80 and 81, 242,000 yds., Morgan & McCarten, 16 cts.; Sec. 12 H, 54,000 yds., Lowrance Bros., 18 cts.; Sec. 13 H, 93,000 yds., Lowrance Bros., 15 cts.

WATER PIPE AND SPECIALS.—Everett, Mass.—M. McNamara, Chn. Bd. Pub. Wks., writes us that the following bids were received April 3, 1901, for furnishing (1) water pipe and (2) castings, as advertised in Engineering News: John Fox & Co., 253 Broadway, New York, (1) $24.25 a ton of 2,240 lbs, (2) 2¼ cts a lb. (accepted); U. S. C. I. P. & Foundry Co., Philadelphia, (1) $24.40, (2) 2⅝ cts.; Warren Foundry & Machine Co., 100 Broadway, New York, (1) $24.40, (2) 2¼ cts.; M. J. Drummond & Co., 192 Broadway, N. Y., 6-in. (1) $25.60, 8, 10 and 12-in. (1) $25.10, (2) 2¼ cts.; R. D. Wood & Co., Philadelphia, (1) $25.40, (2) 2⅝ cts.

BRIDGE ABUTMENTS.—Bradford, Pa.—P. B. Winfree, Cy. Engr., informs us that the following bids were received March 28, 1901, for constructing the masonry abutments for three steel bridges, (1) for 387 yds. of excavation, (2) for 498 yds. of masonry work: J. Jacobson, (1) 85 cts, (2) $6, Barbour St. bridge; $7.75, Forman St.; $6.75, Washington St. D. J. Kelly, (1) 75 cts. and 60 cts. for Washington St.; (2) $9.50, $10.50 and $10. Z. Hill, Bradford (accepted), (1) 40 cts., (2) $5. Penn Bridge Co., (1) 25 cts., 35 cts. and 30 cts.; (2) $4.49, $4.84 and $4.74.

WATER METERS.—Vallejo, Cal.—It is stated that the following bids were received by the board of public works March 27, 1901, for furnishing 500 ⅝-in. water meters: Christian Froehlich, in lots of 50, $7.95 each; 500 for $7.80 each. Jas. A. Sloss, of Miller, Sloss & Co., "Lambert," $8.40 each. H. W. Worthington (Worthington meter), in lots of 50, for $6.35, and the 500 for $5,163. Holbrook Merrill & Stetson, lots of from 50 to 500, $7.97 each. H. E. Wilder, "Mazara," $6.40 each; same with gun metal case, $8.50. G. Frank Otis, "Columbia," 50 to 100 lots, $8.50; 150 to 200 lots, $8.25; 250 to 300 lots, $8; 350 to 400 lots, $7.75; 450 to 500 lots, $7.50. Union Rotary Piston meter, 50 to 100 lots, $11; 150 to 200, $11.75; 250 to 300, $10.50. Five bids were received by telegraph stating that letters were on the way from Pittsburg Meter Co.; Standard Water Meter Co., of Brooklyn; Hersey Water Meter Co., Boston, Mass.; J. D. Hooker Co., of Los Angeles.

ASPHALT PAVING.—Philadelphia, Pa.—The following bids were received by W. C. Haddock, Dir. Pub. Wks., April 9, 1901, for about $600,000 worth of asphalt paving: Richardson & Ross, $2.50, $2.40 to $2.44; Pennsylvania Asphalt Co, $2.53 to $2.65, $2.37 to $2.65; Vulcanite Asphalt Co., $2.50 to $2.60, $2.35 to $2.48; Alcatraz Asphalt Co., $2.62 to $2.65, $2.38 to $2.49; Warner & Quinlan, $1.97, $1.93. Improving paving with asphalt (taking up cobbles, etc., and laying asphalt): Richardson & Ross, $2.60; Vulcanite Co., $2.58 to $2.67; Pennsylvania Co., $2.59 to $2.68; Warner & Quinlan, $2.20. Resurfacing (taking up old asphalt surface and laying a new one). Vulcanite Co., $2.05; Pennsylvania Co., $2.10.

SEWAGE FILTRATION PLANT.—Louisville, Ky.—H. P. McDonald, Arch., Bullitt and Main Sts., writes us that the following contract has been let to C. J. Selvage, of Louisville, for constructing an emergency sewage filter plant at the Lakeland Asylum, to be later supplemented by more important work: Earth excavation, 15 cts. a cu. yd.; rock, 69 cts.; concrete, $2.95 a cu. yd.; brick work, $14 per M; rubble masonry, $6; sewer pipe, 23 cts. a lin. ft.

ASPHALT PAVING.—Atlanta, Ga.—The Southern Paving & Construction Co., of Chattanooga, Tenn., has been awarded the contract at $2.34 a sq. yd. for asphalt paving in Capitol Ave. R. M. Clayton, Cy. Engr.; H. L. Collier, Comr. Pub. Wks.

SEWER PIPE.—Nelson, B. C.—The British Columbia Pottery Co. has been awarded the contract as follows for furnishing sewer pipe: 8-in. pipe, 27½ cts. a ft.; junctions, $1; bends, 70 cts.; 9-in. pipe, 37 cts.; junctions, $1.39; bends, 95 cts.; 12-in. pipe, 55 cts.; junctions, $1.95; bends, $1.30.

SUPPLIES.—Baltimore, Md.—We are informed that the following contracts were let March 29, 1901, for furnishing the electrical commission with sand, pipe, etc.: Chas. E. Phelps, Jr., Ch. Engr.: Sword Quarry Co., Philopolis, Md., $1.40 per ton for crushed stone, size ¾-in., 1-in., 1½ ins., 2 ins.; Citizens Express Co., Baltimore, 40 cts. per ton for hauling material; Shreve & Co., Baltimore, 73 cts. a ton for river and bank sand; M. F. Leonard, Baltimore, 85 cts. a ton for unscreened gravel, $1.15 a ton for screened gravel; Fibre Conduit Co., Orangeburg, N. Y., 5 cts. a ft. for fiber conduit (about 50,000 ft.); Otto Duker & Co., Baltimore, lumber, as follows, per 1,000 ft., board measure, 2 × 3 ft. and 3 × 4 ft., $19.49; 4 × 4 ft., $11.49; 4 × 6 ft., $19.49; 2 × 12 ft., $12.49, 1 × 12 ft., $13.49.

PAVING.—Racine, Wis.—It is stated that the following are the lowest bids received March 9, 1901, for paving and grading in certain streets: High St., brick, R. R. Birdsall, $1.29 cts.; also North Main St., brick, $1.02; Mead St., macadam, 95 cts.; Milwaukee Ave., macadam, F. B. Johnson, 85 cts.; Washington Ave., macadam, Jas. Cape & Son, 78 cts. Hanson & Thomson submitted the lowest bid for sewers in Water St. at 65 cts. for 10-in. pipe sewers; 8-in., 57 cts.; manhole, $30; catchbasins, $32. The entire work will cost about $200,000.

GRADING.—Washington, D. C.—A. Y. Lakeman, Ch. Clk. Engr.'s Dept., writes us that the following bids were received March 23, 1901, for 10,000 yds. of grading in Connecticut Ave.: J. C. Regan & Co., Washington, 42 cts.; Carmody & Hough, 43 cts.; G. B. Mullin, Tennallytown, D. C., 47 cts.; M. F. McNamara & Co., 58 cts.

ASPHALT PAVING.—Atlanta, Ga.—R. M. Clayton, Cy. Engr., informs us that the following bids were received March 18, 1901, for about 18,750 sq. yds.; (1) being for furnishing new stone for concrete, (2) using old macadam for concrete: Warner Bros., Utica, N. Y., (1) $2.63 a sq. yd.; (2) $2.53, asphalt 2 ins., cushion 1-in.; Southern Paving & Construction Co., Chattanooga, Tenn., (1) 1½-in. asphalt and 1½-in. cushion; (2) $2.75, 2-in. asphalt, 1½-in. cushion; Venable Bros., Atlanta, (1) $2.529; (2) $2.49 with 1½-in. asphalt and 1½-in. cushion.

PILES.—New York, N. Y.—The following bids were received by the board of docks, Pier A, North River, on March, for furnishing bout 6,000 piles: Classes 1, 2, 3 and 4, J. J. Reynolds & Son, foot W. 52d St., (1) $19.75; (2) $16.87; (3) $12.55; (4) $10.80. Nichol Bros. (1) $19.95; (2) $16.95; (3) $12.95; (4) $10.95; Naughton & Co., 271 Broadway, (1) $19.60; (2) $16.60; (3) $12.50; (4) $10.50. Stanley H. Miner, 11 Broadway, (1) $19.60; (2) $16.80; (3) $13; (4) $11.

GUIDE PIER.—Marietta, O.—The following bids were received by the city clerk March 4, 1901, for constructing a guide pier for the Putnam St. bridge: Concrete crib, John Wilking, concrete work, $5.50 a cu. yd.; timber, per 1,000 ft. B.M., $26.50; piling, 40 cts. a ft.; sheet piling, $25 a 1,000 ft. B.M.; F. M. Townsend, Zanesville, concrete work, $5; timber, $23; piling, 30 cts.; sheet piling, $25; James Whissel & Co., Marietta, concrete work, $5; timber, $25; piling, 30 cts.; sheet piling, $23; J. T. Hart, concrete work, $4; timber, $50; piling, 60 cts.; sheet piling, $40; P. Q. Shrake, New Martinsville, concrete work, $5; timber, $21.75; piling, 24 cts.; sheet piling, $20; Adams Bros., Zanesville, concrete work, $4.90; timber, $22.00; piling, 23 cts.; sheet piling, $25; W. J. Berry, Dilley's Bottom, concrete work, $4.95; timber, $18; piling, 23 cts.; sheet piling, $23. Timber crib, J. Wilking, stone filling, 75 cts.; timber, $27; piling, 40 cts.; sheet piling, $25; F. M. Townsend, stone foot, $1 per cu. ft.; timber, $26; piling, 30 cts.; sheet piling, $25; Whissel & Co., stone filling, 70 cts.; timber, $23; piling, 30 cts.; sheet piling, $25; J. T. Hart, stone filling, 65 cts.; timber, $50; piling, 60 cts.; sheet piling, $40; P. Q. Shrake, stone filling, 66 cts.; timber, $21.75; piling, 24 cts.; sheet piling, $20; Adams Bros., stone filling, 70 cts.; timber, $22.50; piling, 23 cts.; sheet piling, $25; W. J. Berry, stone filling, 75 cts.; timber, $22; piling, 23 cts.; sheet piling, $23.

BRICK SEWER.—Des Moines, Ia.—The Likes Improvement Co. has secured the contract at $11.95 a lin. ft. for building the 5-ft. overflow sewer in Locust St.

SEWER MATERIALS.—Worcester, Mass.—Harrison P. Eddy, Supt. Sewers, informs us that the following contracts were let March 25, 1901, for furnishing a quantity of sewer supplies: Portland Stone Ware Co., Portland, Me., vitrified pipe, 18% on standard price list; R. S. Sargent, Worcester, Mass., sand, $1.20 a cu. yd.; Frank E. Powers, Worcester, Portland cement, $1.64 in bbls., $1.48 per bbl. in paper, $1.79 per bbl. in cloth. 10 cts. on cloth bags returned credited; F. E. Powers, Worcester, lime, $6.50 per ton; Smith-Green Co., Worcester, Rosendale cement, $1.05 in bbls., 95 cts. per bbl. in paper, $1.20 per bbl. in cloth, 10 cts. on cloth bags returned; Spiers-Fish Co., Boston, Mass., brick, $7.85 per M.; Bay State Pink Granite Co., Milford, Mass., catchbasin stone, $16.40 per set.

INDUSTRIAL NOTES.

THE GARDNER GOVERNOR CO., Quincy, Ill., announces the opening of its new factory buildings Monday evening, April 15th.

THE BETHLEHEM STEEL CO., South Bethlehem, Pa., will move its Chicago offices May 1 to larger quarters, 1520 and 1521 Marquette Bldg. Mr. E. Nelson will continue as sales agent.

MR. G. M. GEST, Cincinnati, has opened an office at 704 Park Row Bldg., New York, in charge of Mr. T. E. Wood, formerly of his Cincinnati office. Mr. Gest makes a specialty of laying electrical conduits.

THE CARLIN MACHINERY & SUPPLY CO., Lacock and Sandusky Sts., Allegheny, Pa., has recently filled an order for several special erector hoisting engines from the Colorado Coal & Iron Co., of Bessemer, Colo.

THE ELECTRIC FIREPROOFING CO., New York, has removed its offices from 119-121 West 23d St., to its plant at 19th St. and East River. The new Atlantic Mutual Insurance Co.'s building, Wall and William Sts., is being fitted throughout with wood fireproofed by the electric fireproofing process.

THE PRESSED STEEL CAR CO., Pittsburg, during the month of March built and shipped 2,609 freight cars, an average of 100 cars for each working day. The largest average for any month prior to March, 1901, was 72 cars a day. The officials of the company report that the prospects are good for even a larger output during April.

HYDE BROS. & CO., 902 Lewis Bldg., Pittsburg, announce that they have recently closed their fourth contract with the American Rolling Mill Co., Chicago, for 500 HP. of boilers to go in its new plant at Muskegon, Mich.; a fourth contract with the Ohio Falls Iron Co., of New Albany, Ind., for 500 HP., and a third contract with the American-McKenna Process Co. for 1,200 HP. of boilers to be used at its new plant in New Jersey.

THE NEW ENGLAND STRUCTURAL CO., Boston, has been awarded the contract for strengthening bridges on the line of the Boston & Albany R. R., made necessary by the purchase of several unusually heavy locomotives for use on the Berkshire mountains. The company has the contract also for 1,200 tons of steel frame work for the new bonded warehouse of the B. & A. R. R., in East Boston, and a contract from the Maine Central R. R. Co. for three 80-ft. plate-girder spans near the foot of Nequasoet Lake in Woolwich.

DEPARTMENT OF BRIDGES,
NOS. 13 TO 21 PARK ROW, PARK ROW BLDG.,
MANHATTAN, NEW YORK CITY.

PROPOSALS FOR BIDS OR ESTIMATES.

Borough of Brooklyn.

SEALED BIDS OR ESTIMATES WILL BE received by the Department of Bridges at the above office until 12 o'clock m., on

MONDAY, APRIL 22, 1901,

FOR FURNISHING ALL THE LABOR, MATERIALS AND PLANT NECESSARY FOR THE CONSTRUCTION OF THE TOWER FOUNDATION, IN THE BOROUGH OF BROOKLYN, OF A BRIDGE (No. 3) OVER THE EAST RIVER, BETWEEN THE BOROUGHS OF MANHATTAN AND BROOKLYN, THE CITY OF NEW YORK.

The work here advertised will consist of sinking, by the plenum-pneumatic process, to a depth of about 94 feet below mean high-water, a caisson, and building thereon a masonry pier.

The caisson will be of timber 78 feet by 144 feet in plan and 55½ feet high. It will be supplemented by a cofferdam about 44 feet high.

The location of the caisson will be between the pierhead and bulkhead lines near the foot of Washington street in the Borough of Brooklyn.

The amount of security required is Two Hundred Thousand ($200,000) Dollars.

The time allowed will be three hundred and twenty (320) days, exclusive of Sundays, holidays and days on which work cannot be done on account of weather.

The person or persons making an estimate shall furnish the same in a sealed envelope, endorsed with the title given above of the work for which the estimate is made, with his or their name or names and the date of presentation, to the head of said Department, at the said office, on or before the date and hour above named, at which time and place the estimates received will be publicly opened by the head of said Department and read, and the award of the contract made to the lowest bidder, with adequate security, as soon thereafter as practicable.

Each estimate shall contain and state the name and place of residence of each of the persons making the same, the names of all persons interested with him or them therein, and if no other person be so interested it shall distinctly state that fact; also that it is made without any connection with any other person making an estimate for the same purpose, and is in all respects fair and without collusion or fraud, and that no member of the Municipal Assembly, head of a department, chief of a bureau, deputy thereof, or clerk therein, or other officer of the corporation, is directly or indirectly interested therein, or in the supplies or work to which it relates, or in any portion of the profits thereof. The estimate must be verified by the oath, in writing, of the party or parties making the estimate that the several matters stated therein are in all respects true.

Each bid or estimate shall be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, or of a guaranty or surety company duly authorized by law to act as a surety, and shall contain the matters set forth in the blank form of bid mentioned below.

No estimate will be received or considered unless accompanied by a certified check or money to the amount of five per centum of the amount of the bond required, as provided in section 420 of the Greater New York Charter.

For particulars as to the quantity and quality of the supplies or the nature and extent of the work required, and of the places of delivery, bidders are referred to the printed specifications.

Bidders will write out the amount of their estimates in addition to inserting the same in figures.

The Commissioner of Bridges reserves the right to reject all bids or estimates if deemed to be for the public interest.

Bidders are requested to make their bids or estimates upon the blank forms prepared by the Commissioner, a copy of which, with the proper envelope in which to enclose the bid, together with a copy of the contract, including the specifications, in the form approved by the Corporation Counsel, can be obtained upon application therefor at the office of the Department of Bridges.

JOHN L. SHEA,
15-2t Commissioner of Bridges.

NEARLY EVERY PROMINENT CONTRACTOR and Manufacturer of Contractors' Supplies READS ENGINEERING NEWS.
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